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EPA Region 5 Records Ctr.



346229

October 27, 2005

Mr. Mark Durno  
U.S. EPA  
25089 Center Ridge Road  
Westlake, Ohio 44145

**Reference: Mahoningside After-Action Removal Report - Final**

Weston START TDD #: 0501-011  
Document Control #: 508-3A-AFSU

Dear Mark;

Please find enclosed two copies of the final report. Per your request, I also sent Mr. Mike Keys and Ed McCabe one complete copy of the report on October 24, 2005. You should have also received an electronic pdf version of the report with all the figures, pictures and attachments. All that remains is to organize and deliver you the file copies for your record, and financial close out the project.

I wanted to personally thank you for allowing us the opportunity to work with you on this project and for assisting in furthering Andy's knowledge on START projects. Please let us know if we can be of further assistance to you on any future projects.

Sincerely,

A handwritten signature in black ink, appearing to read "Mark Durno".

WESTON SOLUTIONS, INC.  
Cleveland Office Manager

**AFTER-ACTION PCB REMOVAL REPORT  
MAHONINGSIDE POWER PLANT SITE  
WARREN, TRUMBULL COUNTY, OHIO**

**Prepared for**

**U.S. ENVIRONMENTAL PROTECTION AGENCY  
Region V Emergency Response Branch  
77 West Jackson Boulevard  
Chicago, Illinois 60604**

**Prepared by**

**WESTON SOLUTIONS, INC.  
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Middleburg Heights, Ohio 44130**

Date Prepared	October 21, 2005
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DCN	508-2A-AFSG
Contract No.	68-W-00-119
START Project Manager	Frank Beodray
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October 21, 2005

Prepared by: \_\_\_\_\_ Date: \_\_\_\_\_  
Andrew Ravis,  
START Project Lead

Reviewed and  
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Frank Beodray,  
START Project Manager

## TABLE OF CONTENTS

<u>Section</u>		<u>Page</u>
<b>I. BACKGROUND .....</b>		<b>1</b>
A. Site Description .....		1
B. Site Background .....		1
C. Location of Hazardous Substances .....		3
D. U.S. EPA Response .....		4
<b>II. PRE-ASSESSMENT ACTIVITIES .....</b>		<b>4</b>
A. PCB-Contaminated Soil Piles A, B, and C .....		4
<b>III. PCB REMOVAL ACTIVITIES .....</b>		<b>5</b>
A. Air Monitoring .....		5
B. Soil Pile B .....		6
C. Soil Pile C .....		6
D. Soil Pile A .....		7
E. Concrete and Large Debris .....		7
F. Excavated Trench Area .....		7
G. Tunnel Sample Area .....		8
<b>IV. CONFIRMATION SAMPLING .....</b>		<b>8</b>
A. Soil Confirmation Sampling .....		8
B. Concrete/Large Debris Confirmation Sampling .....		9
C. Excavated Trench Area .....		9
D. Tunnel Area .....		9
<b>V. CONCLUSIONS .....</b>		<b>9</b>

## **TABLE OF CONTENTS**

### **Appendix A – Site Figures**

- Figure 1 – Site Location Map
- Figure 2 – Confirmation Map

### **Appendix B – Waste Material Disposal Tables and Confirmation Results**

- Non Hazardous Waste Table
- Hazardous Waste Table
- Confirmation Sampling Results Table

### **Appendix C – Site Photos**

- Site Photo Log

### **Appendix D – Project Work Plans**

- Site Sampling Plan
- Air Monitoring Plan
- Confirmation Plan

## **I. BACKGROUND**

### **A. Site Description**

The Mahoningside Power Plant Site (Site), 650 Summit Street, Warren, Trumbull County, Ohio, 44483, is in a mixed commercial, industrial and residential area of Warren, Ohio. The Site consists of an open abandoned basement of a former power plant building, several mixed debris piles, and a small service building which is surrounded by a locked chain link fence. The basement structure contains numerous under-floor sumps, piping, and conduits, some of which were connected to the Mahoning River. The building foundation encompasses 34,000 square feet ( $\text{ft}^2$ ), and the property totals approximately 6 acres. The property is bordered by the Mahoning River to the east, railroad tracks to the north, a residential area to the west, and light industrial properties to the south. Tod Avenue borders the facility to the west, and Summit Street parallels the facility to the south. The geographical coordinates for the site are latitude  $41^{\circ}14'37.5''$  north and longitude  $80^{\circ}49'42.8''$  west. The site location map (see Appendix A – Figure 1) illustrates the location of the site.

### **B. Site Background**

In 1904, the Warren Water and Light Company constructed a hydro-electric power generating plant at the site. From 1950 until 1980, the facility was owned by the Ohio Edison Company and primarily used as a coal-burning power plant until 1968. In August 1977, the property was leased to Summit-Warren, Inc., and was used to operate a salvage business. In December 1980, the property was sold to Nestor Stychno and William Marsteller. In 1999, a bankruptcy agreement between the former property owners and the City of Warren was established to turn the property over to the city.

In February 1999, City of Warren contractors, Inner-scope Technologies, and McCabe Engineering, began demolition and general construction activities at the Site. On March 17, 1999, two 250-foot-high smokestacks were imploded by explosives. General demolition activities continued until November 1999.

In November 1999, the City of Warren consulted with Ohio Environmental Protection Agency (OEPA) and U.S. EPA regarding regulatory compliance in the event that PCBs or heavy metal contamination was discovered during the removal of basement debris. From December 1999, through early March 2000, contractors removed debris from the basement. All PCB contamination discovered during this time was reported to be below the TSCA regulatory level of 50 parts per million (ppm) for industrial facilities. In March 2000, PCB contamination exceeding 50 ppm was discovered in the basement of the former facility. Approximately 450 cubic yards of PCB-contaminated debris were contained on-site.

From March 2000, through June 2000, the City of Warren authorized response actions to control and contain PCB contamination. In mid-June 2002, the City of Warren could not fund the completion of the PCB cleanup and remaining demolition activity. The City of Warren's contractor, McCabe Engineering, continued basement de-watering and treatment actions on a good-faith basis.

On July 21, 2000, the City of Warren requested U.S. EPA assistance to complete the removal and disposal of hazardous materials at the Site and to take over the de-watering operation. On August 4, 2000, U.S. EPA initiated an emergency removal action to continue Site de-watering activities.

From October 10, 2000, until late February 2001, U.S. EPA conducted a time-critical removal at the site. U.S. EPA and its contractors removed high-level PCB contamination from the basement and sub-structure of the former power plant and disposed of previously contained PCB-contaminated debris. Approximately 1,770 tons of PCB-contaminated materials were removed from the site and disposed of at CWM-Chemical Services LLC Landfill located in Model City, New York.

In March 2001, U.S. EPA referred the Site to OEPA for further assessment. On July 24-26, 2001, OEPA conducted an assessment of the Site, which included multi-media sampling. Sampling results indicated that a portion of one debris pile exhibited PCB concentrations as high as 159 ppm, exceeding the regulatory limit of 50 ppm. Two soil samples (GP-7A [trough] and GP-7B [east side]) were collected by OEPA from what they referred to in their

July 2001 report as the “trough” area. The first sample result was 65.1 ppm and the second, a duplicate, was 66.5 ppm. Since both of these results exceeded the 50 ppm action level for PCBs, additional removal and further assessment was required. This OEPA trough area was re-designated by EQM and START Site personnel as the “excavated trench area” which is referenced as such throughout the rest of this report. This excavated trench area was located east of the remaining basement foundation and west of the Mahoning River (see Appendix A – Figure 2).

In June and July 2002, McCabe Engineering collected grid-based composite samples from the piles at various depth intervals. The results of this characterization indicated that elevated levels of PCB’s were present in all three debris piles. Also, the characterization showed that two of the three piles had PCB contamination in excess of 50 ppm.

On January 24, 2003, the City of Warren again requested U.S. EPA’s assistance to dispose of PCB-contaminated debris from the Site. The City of Warren has offered to provide a number of in-kind services to support the project.

On February 21, 2005, U.S. EPA’s Superfund Technical Assessment and Response Team (START) mobilized with Emergency Rapid Response Services (ERRS) contractor, Environmental Quality Management, Inc. (EQM) to complete the final removal of the three staged soil pile remnants of the earlier phases of soil and debris removal and to address the final site surface contamination.

### **C. Location of Hazardous Substances**

The primary source points of contamination during this phase of the cleanup at the Site were 3 debris pile identified as Piles A, B, C and the trench area, which exceeded the PCB action levels between the basement structure of the demolished power plant building and the Mahoning River (see Appendix C – Photos). The soil piles were also sampled for asbestos-containing materials (ACM). The presence of ACM was a result of the pulverized construction debris.

#### **D. U.S. EPA Response**

On February 21, 2005, U.S. EPA and response contractors mobilized START from the Middleburg Heights, Ohio, office and ERRS from Cincinnati, Ohio, to the Site to begin fund-lead removal activities. The objectives of these field activities were two-fold. The initial objectives were to further characterize, segregate, remove and dispose of PCB and ACM contaminated material that remained on Site. The follow-up objectives were to collect confirmation samples and verify that the contaminated soil beneath the soil piles and the other known contaminated areas were removed to meet the project's clean-up goal objectives.

## **II. PRE-ASSESSMENT ACTIVITIES**

### **A. PCB-Contaminated Soil Piles A, B, and C**

On February 1, 2005, sample were collect samples from the three existing soil and debris piles to verify the PCB concentrations and the presence of ACM prior to removal activities. The pre-assessment sampling strategy consisted of collecting one five-point composite sample from Pile B and one combined composite sample from Piles A and C. These samples were analyzed for the following waste characterization parameters:

- Extractable organic halides;
- TCLP metals including mercury;
- Flashpoint;
- PCBs (8082);
- Reactivity cyanide;
- Reactivity sulfide;
- SVOCs (8270C);
- pH;
- Total residue as percent solids;
- VOCs (8260B); and
- Asbestos.

Based on the analytical results obtained from pre-assessment sampling, the determination was made that some of the soil and debris piles contained significant PCB concentrations and would have to be removed as PCB-contaminated material and taken to a Toxic Substances Control Act (TSCA)-permitted landfill for disposal. In preparation for this activity, a Air

Monitoring and Sampling Plan (Appendix B) was prepared to assure worker protection and to monitor the dust levels during on-site operations.

### **III. PCB REMOVAL ACTIVITIES**

#### **A. Air Monitoring**

Two kinds of air monitoring were conducted at the Site, personal air monitoring and perimeter air monitoring. Personal air monitoring consisted of evaluating personnel exposures to asbestos while performing activities associated with the sampling, truck loading and soil removal associated with the three soil/debris piles. A small, low-flow, SKC personal air monitoring pump was attached to one technician and one operator for the first seven days of site activities.

Perimeter particulate monitoring was performed to assess off-site migration of contaminants. Perimeter monitoring initially included four fixed locations north, south, east and west of the site perimeter – with fixed SKC sampling pumps for a period of seven working days. Personal and perimeter monitoring pumps were calibrated to an adjusted flow rate of 2.0 liters per minute. The pumps were equipped with a 25mm MCE sampling cassette as listed in NIOSH Method 7400, for asbestos. All air monitoring samples were properly labeled and shipped to EMSL Analytical, Inc., Westmont, New Jersey, for phase contrast microscopy (PCM) analysis.

Two Personal DataRAMs (PDRs) were used to monitor, control, and minimize particulate levels during work. One PDR was located near operations in the work zone and the other was outside the work zone, downwind from operations. Perimeter particulate monitoring was conducted for a period of seven days and was compared to the Permissible Exposure Limit (PEL) during an 8-hour period. The removal action level was based on a PEL of 01.0 fibers/cc. During the seven days of sampling, the removal action level was not exceeded, and, therefore, perimeter particulate monitoring was discontinued, as provided for in the Sampling Plan.

The PDR action level was 0.500 milligrams-per-cubic-meter ( $\text{mg}/\text{m}^3$ ) maintained for a 60-second period. This action level was never reached or exceeded by either PDR unit. As an added precaution, PDR monitoring was continued through the duration of the project. In addition, dust control wetting methods were applied as required (see Appendix C – Photo 3).

## **B. Soil Pile B**

Removal and disposal of Pile B began February 24, 2005, and was completed March 1, 2005. Using an excavator, Pile B was loaded into 10 ml-HDPE-lined dump trucks (see Appendix C – Photos 2 and 4). Any concrete or large debris (greater than 3 feet in any direction) was removed and staged for further cleaning and confirmation wipe sampling prior to disposal. Approximately 1030 tons of low-level PCB (<50 parts-per-million) material that contained regulated levels of asbestos (>1%) were loaded and transported to Minerva Enterprises, Inc., Waynesburg, Ohio, for further disposal. There was no TSCA regulated material in Pile B.

## **C. Soil Pile C**

Removal and disposal of Pile C began March 2, 2005. Since this pile was known to have elevated PCB concentrations, the pile was segregated to better determine the portion of the TSCA-regulated soil. Areas containing regulated levels of PCBs were segregated and staged for disposal. Segregation consisted of reconfiguring the piles into several smaller 40 cubic yard sub-piles, which were re-sampled to determine final disposition (see Appendix C – Photos 5 and 6). Samples were segregated and classified as TSCA-regulated from the non-TSCA-regulated material. TSCA-regulated materials from Piles A and C were segregated from non-hazardous material and combined into a single staged area (see Photos 7 and 8) in preparation for removal. The waste volumes accumulated from both piles are listed in the hazardous and nonhazardous waste tables in Appendix A. Samples were collected using a sampling composite strategy per 40 CFR Part 761 Subpart O, 761.283 (a) and 761.289 (b)(1)(i). This sampling strategy required a 9-point aliquot per one composite sample for each 40-cubic-yard pile.

Composite soil samples were sent to Severn Trent Laboratories, North Canton, Ohio, for total PCB laboratory analysis. All low-level PCB (<50 parts-per-million) material that contained regulated levels of asbestos (>1%) were loaded and transported to Minerva Enterprises, Inc., Waynesburg, Ohio, for disposal. Material that contained regulated concentrations of PCBs greater than 50 ppm were transported to Environmental Quality Company located in Belleville, Michigan, for landfill disposal. All concrete and large debris was segregated, pressure washed, and placed in a clean debris pile. On April 7, 2005, Pile C work was completed.

#### **D. Soil Pile A**

Removal and disposal of Pile A began April 6, 2005. This pile was known to contain regulated levels of PCBs, which were segregated. The remainder of the pile was reconfigured into two uniform piles approximately 5 feet tall. Piles were measured into 40 cubic yard grids (5 feet x 15 feet x 15 feet) and characterized, through sampling, to determine final disposition. Samples were collected using a sampling composite strategy per 40 CFR Part 761.283 (a) and 761.289 (b)(1)(i). This sampling strategy required a 9-point aliquot per one composite sample for each 40-cubic-yard pile. Samples were sent to Severn Trent Laboratories, North Canton, Ohio, for total PCB analysis. All low-level PCB (<50 ppm) material that contained regulated levels of asbestos (>1%) were loaded and transported to Minerva Enterprises, Inc., Waynesburg, Ohio, for disposal (see Appendix C – Photo 4). All material that contained regulated amounts of PCB (>50 ppm) was transported to Environmental Quality Company, Belleville, Michigan, for landfill disposal. All concrete and large debris was segregated and decontaminated by pressure washing. On July 22, 2005, Pile A work was completed.

#### **E. Concrete and Large Debris**

All concrete and debris larger than 3 feet in any direction was pressure washed with a 3,000-psi pressure washer and staged in 20-cubic-yard piles for subsequent sampling prior to disposal. The majority of these piles consisted of large concrete slabs (see Appendix C – Photos 8 and 12). A total of three large piles (A1-3, B1-3, and C1-3) were generated during removal action activities.

#### **F. Excavated Trench Area**

The excavated trench area was previously identified by OEPA's July 2001 report as containing TCSA-regulated material. Based on the OEPA's findings, 3' of the maximum 5' depth of material in the trench was excavated and disposed of as TSCA-regulated material. This TSCA-regulated material consisted of soil mixed with brick, concrete, and wood construction debris. This material was removed from the trench, placed directly into dump trucks, and staged in the on-site TSCA-regulated pile without sampling. The remaining two feet of soil was segregated into two, 40-cubic-yard piles for composite sampling. The trench area (approximately 10 feet wide by 100 feet long and approximately 5 feet deep [see Photos 9 and 10]) was excavated to approximately 5 foot below the ground surface (bgs), to the top of a native clay lithologic unit.

## **G. Tunnel Sample Area**

An old coal unloading tunnel (approximately 7 feet deep and 5 feet wide) with numerous access shoots that were covered with steel plates which could be moved, was present along the south side of the railroad tracks. These access shoots were spaced approximately 40 to 50 feet apart and some of them were entirely covered with soil from the staged soil piles next to the tunnel. As the soil was removed from above the tunnel, several of the plates covering these access shoots were found to have been moved, prompting sampling of the soil inside the tunnel. From these samples, START verified that none of the contaminated soil from the site activities had accidentally accumulated in this tunnel.

## **IV. CONFIRMATION SAMPLING**

### **A. Soil Confirmation Sampling**

Once all waste soil and debris had been removed from the Site, the waste staging areas were excavated to 6-inches bgs, before confirmation samples were collected. These areas included all areas affected by the contaminated soil (>50 ppm PCBs) on site. Samples were collected using a sampling composite strategy per 40 CFR 761.283 (a) and 761.289 (b)(1)(i). This sampling strategy required a 9-point aliquot per one composite sample for each 25-foot-by-25-foot area. Samples were sent to Severn Trent Laboratories, North Canton, Ohio, for total PCB laboratory analysis.

The total concentration of PCBs in seven grid samples (59 to 66) equaled or exceeded the composite strategy cleanup goal of 25 mg/Kg for a 625ft<sup>2</sup> area on the north side of the site, which required the removal of additional soil. In sixteen soil grids (18 through 33), an additional 6 inches to 12 inches bgs of surface soil had to be removed to meet the cleanup objective. Once the soil within that grid was removed, the newly exposed surface was resampled using the same 9-point aliquot compositing procedure. Approximately four composite samples were collected and analyzed per each 50-foot-by-50-foot area (see Appendix B – Confirmation Sample Results Table for sampling results, and Appendix A – Figure 2 for grid sample locations).

## **B. Concrete/Large Debris Confirmation Sampling**

Solid material such as concrete or wood larger than 3 feet in any direction was sampled. One composite sample was collected per each 20-cubic-yard area. A minimum of three composite samples of the debris material was collected as per 40 CFR section 761.283 (a). Concrete samples were collected with a hammer drill and a ½-inch concrete core bit. Four holes approximately 1-inch deep were placed within a 10 cm-by-10 cm area for one sample. One composite sample from each of the three accumulated concrete piles (A1-3, B1-3, and C1-3) was collected and delivered to Severn Trent Laboratories, North Canton, Ohio, for analysis. Samples were analyzed per EPA Method 8280 for total PCBs. The results from these nine composite samples (3 from each pile) is summarized in the Confirmation Results table in Appendix B. All the composite sample results were non-hazardous.

## **C. Excavated Trench Area**

No confirmation samples were collected from the upper 3' of TSCA-regulated material based on the OEPA report and findings, which indicated that all of the mixed debris was hazardous. Once the mixed debris was removed, the lower 2' of soil was separated into two 40 yd<sup>3</sup> piles, and re-sampled using the 9-point composite sampling strategy. Both composite sample results were below the 25 mg/Kg action level. The results of these two samples are summarized in Confirmation Results table in Appendix B.

## **D. Tunnel Area**

On April 19, 2005, START collected a five-point composite soil sample from the tunnel which was analyzed for total PCBs. The composite sample contained 11 mg/Kg, below the 25 mg/Kg removal action limit. Therefore, no further soil was removed from the tunnel.

## **V. CONCLUSIONS**

This final action concludes U.S. EPA's removal activities at the Site. A total of 141 truck loads and 3,680 tons of TSCA-regulated hazardous waste soil was removed and disposed of from the Site. A total of 548 truck loads and 15,167 tons of non-hazardous soil was also removed. In addition, all concrete debris left on-site was pressure-washed, sampled, and verified as clean construction debris. This material can subsequently be used as clean fill for future redevelopment.

## **Appendix A – Site Figures**

**Figure 1 – Site Location Map**



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MAHONINGSIDE POWER PLANT REMOVAL SITE  
SITE LOCATION MAP  
WARREN, OHIO

DATE: SEPTEMBER 2005

FIGURE 1

Figure 2 – Confirmation Map



TOD AVENUE

TUNNEL AREA

PILE B

PILE C

RAILROAD  
TRACKS

FORMER POWER PLANT  
WATER INTAKE

MAHONING RIVER

EXCAVATION AREA

POWER PLANT  
FOOT PRINT

DAM

CONFIRMATION SAMPLE POINT GRIDS

PILE A

CONCRETE  
DEBRIS PILES

A1-3  
B1-3  
C1-3

SUMMIT STREET

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MAHONINGSIDE POWER PLANT REMOVAL SITE  
CONFIRMATION SAMPLING MAP  
WARREN, OHIO

DATE: AUGUST 2005

FIGURE 2

## **Appendix B – Waste Material Disposal Tables and Confirmation Results**

## **Non Hazardous Waste Table**

U.S. EPA/Mahoningside Power Plant Non-Hazardous  
Transportation and Disposal Daily Log

<u>Shipping Date</u>	<u>Waste Type</u>	<u>Trucking Firm</u>	<u>Truck Number</u>	<u>Manifest Number</u>	<u>Disposal Location</u>	<u>Truck Time In</u>	<u>Truck Time Out</u>	<u>Actual Tonage</u>	<u>Running Total</u>	<u>Daily Running Total</u>
2/24/2001	ACM -Soil	Chuck Foster	9162	00001	Minerva	1030	1113	22.36	22.36	
2/24/2001	ACM -Soil	R&J	6157	00002	Minerva	1045	1120	31.26	53.62	
2/24/2001	ACM -Soil	R&J	1630	00003	Minerva	1113	1135	29.2	82.82	<b>82.82</b>
2/25/2005	ACM -Soil	Chuck Foster	1513	00004	Minerva	0820	0900	23.41	106.23	23.41
2/25/2005	ACM -Soil	Chuck Foster	9162	00005	Minerva	0830	0905	24.65	130.88	48.06
2/25/2005	ACM -Soil	R&J	99125	00006	Minerva	0935	0950	22	152.88	70.06
2/25/2005	ACM -Soil	R&J	6157	00007	Minerva	0945	1010	27.93	180.81	97.99
2/25/2005	ACM -Soil	R&J	1630	00008	Minerva	1010	1025	29.23	210.04	127.22
2/25/2005	ACM -Soil	Autumn Ind.	742	00009	Minerva	1110	1145	28.94	238.98	156.16
2/25/2005	ACM -Soil	Chuck Foster	1513	00010	Minerva	1240	1305	24.09	263.07	180.25
2/25/2005	ACM -Soil	Chuck Foster	9162	00011	Minerva	1255	1325	28.57	291.64	<b>208.82</b>
2/28/2005	ACM -Soil	Chuck Foster	1520	00012	Minerva	0700	0712	22.24	313.88	22.24
2/28/2005	ACM -Soil	Chuck Foster	9253	00013	Minerva	0700	0730	27.22	341.1	49.46
2/28/2005	ACM -Soil	Chuck Foster	1513	00014	Minerva	0700	0745	23.77	364.87	73.23
2/28/2005	ACM -Soil	Chuck Foster	9162	00015	Minerva	0700	0750	28.57	393.44	101.8
2/28/2005	ACM -Soil	R&J	6157	00016	Minerva	0700	0755	30	423.44	131.8
2/28/2005	ACM -Soil	R&J	2269	00017	Minerva	0705	0800	26.48	449.92	158.28

U.S. EPA/Mahoningside Power Plant Non-Hazardous  
Transportation and Disposal Daily Log

2/28/2005	ACM -Soil	R&J	1950	00018	Minerva	0745	0812	29.38	479.3	187.66
2/28/2005	ACM -Soil	R&J	2179	00019	Minerva	0825	0850	27.71	507.01	215.37
2/28/2005	ACM -Soil	R&J	99125	00020	Minerva	0835	0856	26	533.01	241.37
2/28/2005	ACM -Soil	Ground Tech	0001	00021	Minerva	0950	1015	23.66	556.67	265.03
2/28/2005	ACM -Soil	Autumn Ind.	728	00022	Minerva	1040	1155	30.06	586.73	295.09
2/28/2005	ACM -Soil	Chuck Foster	1535	00023	Minerva	1103	1207	28.19	614.92	323.28
2/28/2005	ACM -Soil	Chuck Foster	1513	00024	Minerva	1103	1210	26.47	641.39	349.75
2/28/2005	ACM -Soil	Chuck Foster	9162	00025	Minerva	1130	1218	24.15	665.54	373.9
2/28/2005	ACM -Soil	R&J	6157	00026	Minerva	1141	1229	27.82	693.36	401.72
2/28/2005	ACM -Soil	R&J	2269	00027	Minerva	1141	1235	26.29	719.65	428.01
2/28/2005	ACM -Soil	R&J	1950	00028	Minerva	1220	1245	26.78	746.43	454.79
2/28/2005	ACM -Soil	R&J	99125	00029	Minerva	1239	1303	29.14	775.57	483.93
2/28/2005	ACM -Soil	R&J	2179	00030	Minerva	1240	1307	29.12	804.69	513.05
2/28/2005	ACM -Soil	Chuck Foster	1520	00031	Minerva	1258	1320	32.67	837.36	545.72
2/28/2005	ACM -Soil	Chuck Foster	9253	00032	Minerva	1307	1330	34.15	871.51	579.87
2/28/2005	ACM -Soil	Chuck Foster	1513	00033	Minerva	1530	1555	24.23	895.74	<b>604.1</b>
3/1/2005	ACM -Soil	Chuck Foster	9253	00034	Minerva	0700	0735	23.08	918.82	23.08
3/1/2005	ACM -Soil	Chuck Foster	9162	00035	Minerva	0700	0745	25.07	943.89	48.15

U.S. EPA/Mahoningside Power Plant Non-Hazardous  
Transportation and Disposal Daily Log

3/1/2005	ACM -Soil	R&J	1520	00036	Minerva	0700	0812	28.52	972.41	76.67
3/1/2005	ACM -Soil	R&J	6157	00037	Minerva	0700	0817	29.27	1001.68	105.94
3/1/2005	ACM -Soil	R&J	2269	00038	Minerva	0700	0825	28.4	1030.08	134.34
3/1/2005	ACM -Soil	Chuck Foster	1535	00039	Minerva	0700	0845	29.7	1059.78	164.04
3/1/2005	ACM -Soil	R&J	1950	00040	Minerva	0700	0900	31.58	1091.36	195.62
3/1/2005	ACM -Soil	R&J	99125	00041	Minerva	0700	0915	27.81	1119.17	223.43
3/1/2005	ACM -Soil	R&J	2197	00042	Minerva	0730	0930	29.64	1148.81	253.07
3/1/2005	ACM -Soil	Chuck Foster	1513	00043	Minerva	0950	1020	27.08	1175.89	280.15
3/1/2005	ACM -Soil	Chuck Foster	9162	00044	Minerva	1120	1220	22.21	1198.1	302.36
3/1/2005	ACM -Soil	R&J	2269	00045	Minerva	1154	1230	28.29	1226.39	330.65
3/1/2005	ACM -Soil	R&J	6157	00046	Minerva	1203	1237	31.26	1257.65	361.91
3/1/2005	ACM -Soil	Chuck Foster	1535	00047	Minerva	1217	1245	21.19	1278.84	383.1
3/1/2005	ACM -Soil	R&J	1950	00048	Minerva	1233	1303	28.18	1307.02	411.28
3/1/2005	ACM -Soil	R&J	99125	00049	Minerva	1248	1315	24.89	1331.91	<b>436.17</b>
3/4/2005	ACM -Soil	R&J	1950	00050	Minerva	0910	0950	28.84	1360.75	28.84
3/4/2005	ACM -Soil	Chuck Foster	1513	00051	Minerva	0925	1000	26.46	1387.21	55.3
3/4/2005	ACM -Soil	R&J	99125	00052	Minerva	0939	1004	30.62	1417.83	85.92
3/4/2005	ACM -Soil	Ground Tech	0001	00053	Minerva	0958	1025	24.21	1442.04	110.13

U.S. EPA/Mahoningside Power Plant Non-Hazardous  
Transportation and Disposal Daily Log

3/4/2005	ACM -Soil	R&J	6157	00054	Minerva	1010	1035	34.21	1476.25	144.34
3/4/2005	ACM -Soil	Chuck Foster	8523	00055	Minerva	1020	1050	38.84	1515.09	183.18
3/4/2005	ACM -Soil	Chuck Foster	9253	00056	Minerva	1033	1058	35.42	1550.51	218.6
3/4/2005	ACM -Soil	R&J	2257	00057	Minerva	1110	1148	32.82	1583.33	251.42
3/4/2005	ACM -Soil	Chuck Foster	9251	00058	Minerva	1133	1200	23.24	1606.57	274.66
3/4/2005	ACM -Soil	Chuck Foster	1535	00059	Minerva	1211	1255	32.57	1639.14	307.23
3/4/2005	ACM -Soil	R&J	2183	00060	Minerva	1242	1307	27.06	1666.2	<b>334.29</b>
3/7/2005	ACM -Soil	Chuck Foster	1535	00061	Minerva	0800	0755	28.26	1694.46	28.26
3/7/2005	ACM -Soil	Chuck Foster	9253	00062	Minerva	0800	0845	25.74	1720.2	54
3/7/2005	ACM -Soil	Chuck Foster	8523	00063	Minerva	0800	0856	26.54	1746.74	80.54
3/7/2005	ACM -Soil	Chuck Foster	8230	00064	Minerva	0800	0903	24.17	1770.91	104.71
3/7/2005	ACM -Soil	R&J	1939	00065	Minerva	0800	0912	25.38	1796.29	130.09
3/7/2005	ACM -Soil	R&J	1950	00066	Minerva	0800	0925	23.89	1820.18	153.98
3/7/2005	ACM -Soil	R&J	6157	00067	Minerva	0800	0930	26.51	1846.69	180.49
3/7/2005	ACM -Soil	R&J	2257	00068	Minerva	0800	0940	26.12	1872.81	206.61
3/7/2005	ACM -Soil	R&J	99125	00069	Minerva	0800	0950	31	1903.81	237.61
3/7/2005	ACM -Soil	Ground Tech	327	00070	Minerva	0800	1000	24.72	1928.53	<b>262.33</b>
3/9/2005	ACM -Soil	R&J	2257	00071	Minerva	1231	1336	27.66	1956.19	27.66

U.S. EPA/Mahoningside Power Plant Non-Hazardous  
Transportation and Disposal Daily Log

3/9/2005	ACM -Soil	R&J	6157	00072	Minerva	1305	1345	32.35	1988.54	60.01
3/9/2005	ACM -Soil	R&J	99125	00073	Minerva	1320	1352	25.02	2013.56	85.03
3/9/2005	ACM -Soil	R&J	1950	00074	Minerva	1329	1358	36.61	2050.17	121.64
3/9/2005	ACM -Soil	R&J	1939	00075	Minerva	1340	1405	29.29	2079.46	150.93
3/9/2005	ACM -Soil	Chuck Foster	8230	00076	Minerva	1350	1420	29.34	2108.8	180.27
3/9/2005	ACM -Soil	Chuck Foster	1520	00077	Minerva	1400	1430	33.78	2142.58	214.05
3/9/2005	ACM -Soil	Chuck Foster	1535	00078	Minerva	1415	1440	31.84	2174.42	245.89
3/9/2005	ACM -Soil	Chuck Foster	9253	00079	Minerva	1429	1500	30.36	2204.78	276.25
3/9/2005	ACM -Soil	Ground Tech	327	00080	Minerva	1430	1515	29.9	2234.68	306.15
3/ 4/2005	ACM -Soil	R&J	6157	00081	Minerva	0653	0725	27.86	2262.54	27.86
3/ 4/2005	ACM -Soil	R&J	2257	00082	Minerva	0705	0735	26.63	2289.17	54.49
3/ 4/2005	ACM -Soil	R&J	1950	00083	Minerva	0718	0749	28.2	2317.37	82.69
3/ 4/2005	ACM -Soil	Chuck Foster	1513	00084	Minerva	0734	0759	24.16	2341.53	106.85
3/ 4/2005	ACM -Soil	Chuck Foster	9162	00085	Minerva	0749	0820	30.93	2372.46	137.78
3/ 4/2005	ACM -Soil	Autumn Ind.	78002	00086	Minerva	0759	0830	27.43	2399.89	165.21
3/ 4/2005	ACM -Soil	R&J	1939	00087	Minerva	0809	0842	28.21	2428.1	193.42
3/ 4/2005	ACM -Soil	Autumn Ind.	82101	00088	Minerva	0825	0853	28.02	2456.12	221.44
3/ 4/2005	ACM -Soil	Chuck Foster	8230	00089	Minerva	0836	0857	22	2478.12	243.44

U.S. EPA/Mahoningside Power Plant Non-Hazardous  
Transportation and Disposal Daily Log

3/14/2005	ACM -Soil	R&J	99125	00090	Minerva	0844	0906	26.19	2504.31	269.63
3/14/2005	ACM -Soil	Ground Tech	327	00091	Minerva	0852	0917	22	2526.31	291.63
3/14/2005	ACM -Soil	Chuck Foster	1535	00092	Minerva	0939	1000	26.94	2553.25	318.57
3/14/2005	ACM -Soil	Chuck Foster	1520	00093	Minerva	0950	1020	26.73	2579.98	345.3
3/14/2005	ACM -Soil	Chuck Foster	9253	00094	Minerva	1001	1028	26.02	2606	371.32
3/14/2005	ACM -Soil	Autumn Ind.	735	00095	Minerva	1159	1220	32.5	2638.5	403.82
3/14/2005	ACM -Soil	R&J	6157	00096	Minerva	1208	1230	30.68	2669.18	434.5
3/14/2005	ACM -Soil	R&J	2257	00097	Minerva	1217	1242	29.28	2698.46	463.78
3/14/2005	ACM -Soil	R&J	1950	00098	Minerva	1228	1255	25.12	2723.58	488.9
3/14/2005	ACM -Soil	Chuck Foster	9162	00099	Minerva	1253	1316	28.16	2751.74	517.06
3/14/2005	ACM -Soil	Chuck Foster	1513	00100	Minerva	1301	1323	26.22	2777.96	543.28
3/14/2005	ACM -Soil	R&J	1939	00101	Minerva	1311	1332	23.86	2801.82	567.14
3/14/2005	ACM -Soil	R&J	99125	00102	Minerva	1320	1345	23.54	2825.36	590.68
3/14/2005	ACM -Soil	Autumn Ind.	82101	00103	Minerva	1341	1404	19.95	2845.31	610.63
3/14/2005	ACM -Soil	Autumn Ind.	78002	00104	Minerva	1352	1411	18.65	2863.96	629.28
3/14/2005	ACM -Soil	Ground Tech	327	00105	Minerva	1445	1510	18.86	2882.82	<b>648.14</b>
3/16/2005	ACM -Soil	Ground Tech	327	00106	Minerva	1230	1300	24.97	2907.79	<b>24.97</b>
3/17/2005	ACM -Soil	Chuck Foster	1535	00107	Minerva	0643	0711	26.39	2934.18	26.39

U.S. EPA/Mahoningside Power Plant Non-Hazardous  
Transportation and Disposal Daily Log

3/17/2005	ACM -Soil	Chuck Foster	8523	00108	Minerva	0655	0715	32.07	2966.25	58.46
3/17/2005	ACM -Soil	Chuck Foster	9253	00109	Minerva	0703	0725	26.13	2992.38	84.59
3/17/2005	ACM -Soil	Chuck Foster	93	00110	Minerva	0712	0740	29.62	3022	114.21
3/17/2005	ACM -Soil	Chuck Foster	1505	00111	Minerva	0721	0747	32.16	3054.16	146.37
3/17/2005	ACM -Soil	R&J	1939	00112	Minerva	0731	0753	25.18	3079.34	171.55
3/17/2005	ACM -Soil	R&J	1950	00113	Minerva	0743	0802	25.83	3105.17	197.38
3/17/2005	ACM -Soil	R&J	6157	00114	Minerva	0754	0810	28.72	3133.89	226.1
3/17/2005	ACM -Soil	R&J	2257	00115	Minerva	0801	0821	28.39	3162.28	254.49
3/17/2005	ACM -Soil	R&J	99125	00116	Minerva	0809	0828	25.44	3187.72	279.93
3/17/2005	ACM -Soil	Ground Tech	325	00117	Minerva	1020	1045	24.81	3212.53	304.74
3/17/2005	ACM -Soil	Chuck Foster	1535	00118	Minerva	1038	1118	24.04	3236.57	328.78
3/17/2005	ACM -Soil	Chuck Foster	8523	00119	Minerva	1048	1124	31.15	3267.72	359.93
3/17/2005	ACM -Soil	Chuck Foster	9253	00120	Minerva	1106	1215	26.56	3294.28	386.49
3/17/2005	ACM -Soil	Chuck Foster	93	00121	Minerva	1116	1225	29.32	3323.6	415.81
3/17/2005	ACM -Soil	Chuck Foster	1505	00122	Minerva	1203	1235	28.77	3352.37	444.58
3/17/2005	ACM -Soil	R&J	1939	00123	Minerva	1213	1241	23.7	3376.07	468.28
3/17/2005	ACM -Soil	R&J	1950	00124	Minerva	1221	1250	25.19	3401.26	493.47
3/17/2005	ACM -Soil	R&J	6157	00125	Minerva	1231	1301	28.97	3430.23	522.44

U.S. EPA/Mahoningside Power Plant Non-Hazardous  
Transportation and Disposal Daily Log

3/17/2005	ACM -Soil	R&J	2257	00126	Minerva	1240	1540	26.87	3457.1	549.31
3/17/2005	ACM -Soil	R&J	99125	00127	Minerva	1251	1607	20.49	3477.59	569.8
3/17/2005	ACM -Soil	Ground Tech	327	00128	Minerva	1500	1530	22.58	3500.17	<b>592.38</b>
3/21/2005	ACM -Soil	Chuck Foster	1520	00129	Minerva	0700	0737	21.64	3521.81	21.64
3/21/2005	ACM -Soil	Chuck Foster	1513	00130	Minerva	0710	0745	25.02	3546.83	46.66
3/21/2005	ACM -Soil	Chuck Foster	9253	00131	Minerva	0720	0750	20.74	3567.57	67.4
3/21/2005	ACM -Soil	Ground Tech	327	00132	Minerva	1100	1130	23.07	3590.64	90.47
3/21/2005	ACM -Soil	Chuck Foster	1513	00133	Minerva	1150	1246	30.5	3621.14	<b>120.97</b>
3/22/2005	ACM -Soil	Autumn Ind.	78002	00134	Minerva	0650	0720	22.97	3644.11	22.97
3/22/2005	ACM -Soil	Chuck Foster	8523	00135	Minerva	0700	0725	29.08	3673.19	52.05
3/22/2005	ACM -Soil	Chuck Foster	9253	00136	Minerva	0710	0733	24.22	3697.41	76.27
3/22/2005	ACM -Soil	Chuck Foster	1513	00137	Minerva	0722	0746	28.35	3725.76	104.62
3/22/2005	ACM -Soil	Chuck Foster	9164	00138	Minerva	0734	0753	32.86	3758.62	137.48
3/22/2005	ACM -Soil	R&J	1939	00139	Minerva	0740	0801	23.93	3782.55	161.41
3/22/2005	ACM -Soil	R&J	1950	00140	Minerva	0750	0815	24.3	3806.85	185.71
3/22/2005	ACM -Soil	R&J	2257	00141	Minerva	0805	0827	26.82	3833.67	212.53
3/22/2005	ACM -Soil	R&J	6157	00142	Minerva	0812	0835	28.89	3862.56	241.42
3/22/2005	ACM -Soil	Ground Tech	327	00143	Minerva	0819	0840	22.45	3885.01	263.87

U.S. EPA/Mahoningside Power Plant Non-Hazardous  
Transportation and Disposal Daily Log

3/22/2005	ACM -Soil	Autumn Ind.	742	00144	Minerva	0829	0850	24.67	3909.68	288.54
3/22/2005	ACM -Soil	R&J	99125	00145	Minerva	0837	0855	24.74	3934.42	313.28
3/22/2005	ACM -Soil	Autumn Ind.	728	00146	Minerva	0953	1015	29.32	3963.74	342.6
3/22/2005	ACM -Soil	Autumn Ind.	2	00147	Minerva	1002	1020	25.87	3989.61	368.47
3/22/2005	ACM -Soil	Chuck Foster	7151	00148	Minerva	1020	1035	26.08	4015.69	394.55
3/22/2005	ACM -Soil	Chuck Foster	9251	00149	Minerva	1027	1045	17.16	4032.85	411.71
3/22/2005	ACM -Soil	Chuck Foster	1513	00150	Minerva	1139	1204	31.44	4064.29	443.15
3/22/2005	ACM -Soil	Autumn Ind.	618	00151	Minerva	1155	1223	30.06	4094.35	473.21
3/22/2005	ACM -Soil	Autumn Ind.	78002	00152	Minerva	1206	1227	29.18	4123.53	502.39
3/22/2005	ACM -Soil	Chuck Foster	9164	00153	Minerva	1213	1240	28.51	4152.04	530.9
3/22/2005	ACM -Soil	Autumn Ind.	731	00154	Minerva	1225	1249	25.85	4177.89	556.75
3/22/2005	ACM -Soil	R&J	1939	00155	Minerva	1233	1250	24.16	4202.05	580.91
3/22/2005	ACM -Soil	R&J	1950	00156	Minerva	1240	1300	23.14	4225.19	604.05
3/22/2005	ACM -Soil	Chuck Foster	8523	00157	Minerva	1251	1316	25.64	4250.83	629.69
3/22/2005	ACM -Soil	Chuck Foster	9253	00158	Minerva	1302	1325	22.65	4273.48	652.34
3/22/2005	ACM -Soil	R&J	99125	00159	Minerva	1315	1336	22.37	4295.85	674.71
3/22/2005	ACM -Soil	R&J	2257	00160	Minerva	1326	1348	26.98	4322.83	701.69
3/22/2005	ACM -Soil	R&J	6157	00161	Minerva	1337	1354	28.91	4351.74	730.6

U.S. EPA/Mahoningside Power Plant Non-Hazardous  
Transportation and Disposal Daily Log

3/22/2005	ACM -Soil	Ground Tech	327	00162	Minerva	1344	1405	20.71	4372.45	751.31
3/22/2005	ACM -Soil	Chuck Foster	1536	00163	Minerva	1520	1535	29.17	4401.62	780.48
3/22/2005	ACM -Soil	Chuck Foster	1513	00164	Minerva	1529	1555	30.19	4431.81	<b>810.67</b>
3/31/2005	ACM -Soil	Autumn Ind.	78002	00165	Minerva	0700	0718	22.88	4454.69	22.88
3/31/2005	ACM -Soil	Chuck Foster	1535	00166	Minerva	0700	0725	26.81	4481.5	49.69
3/31/2005	ACM -Soil	R&J	2269	00167	Minerva	0701	0730	26.48	4507.98	76.17
3/31/2005	ACM -Soil	R&J	6157	00168	Minerva	0713	0733	27.11	4535.09	103.28
3/31/2005	ACM -Soil	Chuck Foster	1520	00169	Minerva	0722	0744	26.14	4561.23	129.42
3/31/2005	ACM -Soil	Chuck Foster	9253	00170	Minerva	0730	0750	22.64	4583.87	152.06
3/31/2005	ACM -Soil	Chuck Foster	1513	00171	Minerva	0739	0804	29.05	4612.92	181.11
3/31/2005	ACM -Soil	Chuck Foster	9136	00172	Minerva	0748	0806	40.64	4653.56	221.75
3/31/2005	ACM -Soil	Autumn Ind.	742	00173	Minerva	0756	0814	32.18	4685.74	253.93
3/31/2005	ACM -Soil	Ground Tech	327	00174	Minerva	0805	0822	25.49	4711.23	279.42
3/31/2005	ACM -Soil	R&J	1939	00175	Minerva	0814	0835	25.56	4736.79	304.98
3/31/2005	ACM -Soil	R&J	1630	00176	Minerva	0823	0841	26.09	4762.88	331.07
3/31/2005	ACM -Soil	R&J	1950	00177	Minerva	0830	0850	24.32	4787.2	355.39
3/31/2005	ACM -Soil	Autumn Ind.	731	00178	Minerva	0917	0940	0	4787.2	355.39
3/31/2005	ACM -Soil	Autumn Ind.	744	00179	Minerva	0932	0955	29.61	4816.81	385

U.S. EPA/Mahoningside Power Plant Non-Hazardous  
Transportation and Disposal Daily Log

3/31/2005	ACM -Soil	Autumn Ind.	78002	00180	Minerva	1115	1155	31.1	4847.91	416.1
3/31/2005	ACM -Soil	Chuck Foster	1535	00181	Minerva	1144	1210	30	4877.91	446.1
3/31/2005	ACM -Soil	R&J	2269	00182	Minerva	1156	1220	28.57	4906.48	474.67
3/31/2005	ACM -Soil	R&J	6157	00183	Minerva	1200	1230	27.72	4934.2	502.39
3/31/2005	ACM -Soil	Chuck Foster	1520	00184	Minerva	1213	1233	31.22	4965.42	533.61
3/31/2005	ACM -Soil	Chuck Foster	9253	00185	Minerva	1222	1241	21.95	4987.37	555.56
3/31/2005	ACM -Soil	Chuck Foster	1513	00186	Minerva	1230	1252	31.44	5018.81	587
3/31/2005	ACM -Soil	Chuck Foster	9137	00187	Minerva	1238	1308	30.95	5049.76	617.95
3/31/2005	ACM -Soil	Ground Tech	327	00188	Minerva	1247	1310	22.43	5072.19	640.38
3/31/2005	ACM -Soil	R&J	1939	00189	Minerva	1257	1323	26.56	5098.75	666.94
3/31/2005	ACM -Soil	R&J	1630	00190	Minerva	1310	1340	24.55	5123.3	691.49
3/31/2005	ACM -Soil	R&J	1950	00191	Minerva	1324	1350	26.75	5150.05	718.24
3/31/2005	ACM -Soil	Chuck Foster	1536	00192	Minerva	1400	1425	28.89	5178.94	747.13
3/31/2005	ACM -Soil	Chuck Foster	1513	00193	Minerva	1620	1645	35.73	5214.67	782.86
4/1/2005	ACM -Soil	Chuck Foster	1535	00194	Minerva	0641	0710	26.88	5241.55	26.88
4/1/2005	ACM -Soil	R&J	2269	00195	Minerva	0652	0715	28.4	5269.95	55.28
4/1/2005	ACM -Soil	R&J	6157	00196	Minerva	0700	0725	28.72	5298.67	84
4/1/2005	ACM -Soil	Chuck Foster	1520	00197	Minerva	0708	0735	29.11	5327.78	113.11

U.S. EPA/Mahoningside Power Plant Non-Hazardous  
Transportation and Disposal Daily Log

4/1/2005	ACM -Soil	Chuck Foster	9253	00198	Minerva	0720	0748	21.33	5349.11	134.44
4/1/2005	ACM -Soil	R&J	99125	00199	Minerva	0727	0750	27.85	5376.96	162.29
4/1/2005	ACM -Soil	R&J	1939	00200	Minerva	0736	0754	25.41	5402.37	187.7
4/1/2005	ACM -Soil	R&J	1630	00201	Minerva	0742	0803	24.3	5426.67	212
4/1/2005	ACM -Soil	R&J	1950	00202	Minerva	0752	0809	20.15	5446.82	232.15
4/1/2005	ACM -Soil	Chuck Foster	9137	00203	Minerva	0800	0816	28.41	5475.23	260.56
4/1/2005	ACM -Soil	R&J	2197	00204	Minerva	0806	0823	27.94	5503.17	288.5
4/1/2005	ACM -Soil	Chuck Foster	1513	00205	Minerva	1003	1025	30.79	5533.96	319.29
4/1/2005	ACM -Soil	Chuck Foster	1535	00206	Minerva	1037	1114	31.85	5565.81	351.14
4/1/2005	ACM -Soil	R&J	2269	00207	Minerva	1111	1130	30.02	5595.83	381.16
4/1/2005	ACM -Soil	R&J	6157	00208	Minerva	1119	1145	28.77	5624.6	409.93
4/1/2005	ACM -Soil	Chuck Foster	1520	00209	Minerva	1205	1231	29.26	5653.86	439.19
4/1/2005	ACM -Soil	Chuck Foster	9253	00210	Minerva	1214	1238	22.29	5676.15	461.48
4/1/2005	ACM -Soil	R&J	1939	00211	Minerva	1227	1243	23.26	5699.41	484.74
4/1/2005	ACM -Soil	R&J	1630	00212	Minerva	1236	1257	23.9	5723.31	508.64
4/1/2005	ACM -Soil	R&J	1950	00213	Minerva	1244	1305	22.7	5746.01	531.34
4/1/2005	ACM -Soil	Chuck Foster	9137	00214	Minerva	1253	1312	27.77	5773.78	559.11
4/1/2005	ACM -Soil	R&J	2197	00215	Minerva	1353	1425	31.04	5804.82	<b>590.15</b>

U.S. EPA/Mahoningside Power Plant Non-Hazardous  
Transportation and Disposal Daily Log

4/4/2005	ACM -Soil	R&J	6157	00216	Minerva	0700	0735	25.55	5830.37	25.55
4/4/2005	ACM -Soil	R&J	2269	00217	Minerva	0700	0750	26.32	5856.69	51.87
4/4/2005	ACM -Soil	R&J	1950	00218	Minerva	0715	0806	24.72	5881.41	76.59
4/4/2005	ACM -Soil	R&J	99125	00219	Minerva	0720	0815	24.09	5905.5	100.68
4/4/2005	ACM -Soil	Chuck Foster	9137	00220	Minerva	0730	0834	26.67	5932.17	127.35
4/4/2005	ACM -Soil	R&J	2197	00221	Minerva	0948	1015	26.68	5958.85	154.03
4/4/2005	ACM -Soil	R&J	2269	00222	Minerva	1200	1248	30.6	5989.45	184.63
4/4/2005	ACM -Soil	R&J	6157	00223	Minerva	1230	1300	27.16	6016.61	211.79
4/4/2005	ACM -Soil	Chuck Foster	9137	00224	Minerva	1243	1318	35.74	6052.35	247.53
4/4/2005	ACM -Soil	R&J	1950	00225	Minerva	1248	1330	24.3	6076.65	271.83
4/4/2005	ACM -Soil	R&J	2197	00226	Minerva	1402	1440	28.11	6104.76	299.94
4/7/2005	ACM -Soil	Chuck Foster	1535	00227	Minerva	0706	0735	23.96	6128.72	23.96
4/7/2005	ACM -Soil	R&J	2269	00228	Minerva	0718	0740	25.02	6153.74	48.98
4/7/2005	ACM -Soil	R&J	6157	00229	Minerva	0729	0745	28.74	6182.48	77.72
4/7/2005	ACM -Soil	Chuck Foster	1520	00230	Minerva	0739	0803	33	6215.48	110.72
4/7/2005	ACM -Soil	Chuck Foster	9253	00231	Minerva	0752	0813	25	6240.48	135.72
4/7/2005	ACM -Soil	R&J	1939	00232	Minerva	0804	0821	23.95	6264.43	159.67
4/7/2005	ACM -Soil	R&J	1630	00233	Minerva	0813	0835	26.8	6291.23	186.47

U.S. EPA/Mahoningside Power Plant Non-Hazardous  
Transportation and Disposal Daily Log

4/7/2005	ACM -Soil	R&J	1950	00234	Minerva	0825	0845	26.05	6317.28	212.52
4/7/2005	ACM -Soil	Chuck Foster	1513	00235	Minerva	0834	0855	30.88	6348.16	243.4
4/7/2005	ACM -Soil	Ground Tech	327	00236	Minerva	0843	0900	21.95	6370.11	265.35
4/7/2005	ACM -Soil	R&J	2197	00237	Minerva	0853	0915	27.05	6397.16	292.4
4/7/2005	ACM -Soil	Chuck Foster	1535	00238	Minerva	1115	1144	30.7	6427.86	323.1
4/7/2005	ACM -Soil	R&J	2269	00239	Minerva	1130	1150	27.45	6455.31	350.55
4/7/2005	ACM -Soil	Chuck Foster	8230	00240	Minerva	1137	1153	24.25	6479.56	374.8
4/7/2005	ACM -Soil	R&J	6157	00241	Minerva	1146	1210	26.1	6505.66	400.9
4/7/2005	ACM -Soil	Chuck Foster	1513	00242	Minerva	1257	1315	31.56	6537.22	432.46
4/7/2005	ACM -Soil	Chuck Foster	9136	00243	Minerva	1306	1323	27.19	6564.41	459.65
4/7/2005	ACM -Soil	Chuck Foster	1520	00244	Minerva	1318	1337	29.03	6593.44	488.68
4/7/2005	ACM -Soil	Chuck Foster	9253	00245	Minerva	1328	1345	20.62	6614.06	509.3
4/7/2005	ACM -Soil	Ground Tech	327	00246	Minerva	1336	1350	20.2	6634.26	529.5
4/7/2005	ACM -Soil	R&J	1950	00247	Minerva	1457	1530	28.75	6663.01	558.25
4/7/2005	ACM -Soil	R&J	1939	00248	Minerva	1518	1555	24.18	6687.19	582.43
4/7/2005	ACM -Soil	R&J	1630	00249	Minerva	1525	1604	24.89	6712.08	607.32
4/7/2005	ACM -Soil	R&J	2197	00250	Minerva	1545	1615	26.79	6738.87	<b>634.11</b>
4/14/2005	ACM -Soil	Chuck Foster	1535	00251	Minerva	0700	0732	27.33	6766.2	27.33

U.S. EPA/Mahoningside Power Plant Non-Hazardous  
Transportation and Disposal Daily Log

4/14/2005	ACM -Soil	Chuck Foster	1513	00252	Minerva	0709	0734	28.97	6795.17	56.3
4/14/2005	ACM -Soil	R&J	2269	00253	Minerva	0717	0747	26.37	6821.54	82.67
4/14/2005	ACM -Soil	R&J	6157	00254	Minerva	0726	0755	27.92	6849.46	110.59
4/14/2005	ACM -Soil	Chuck Foster	1520	00255	Minerva	0738	0815	27.69	6877.15	138.28
4/14/2005	ACM -Soil	Chuck Foster	9253	00256	Minerva	0751	0816	24.27	6901.42	162.55
4/14/2005	ACM -Soil	Chuck Foster	9136	00257	Minerva	0802	0827	33.45	6934.87	196
4/14/2005	ACM -Soil	Chuck Foster	9821	00258	Minerva	0812	0834	28.63	6963.5	224.63
4/14/2005	ACM -Soil	R&J	1939	00259	Minerva	0823	0850	24.23	6987.73	248.86
4/14/2005	ACM -Soil	R&J	1950	00260	Minerva	0837	0903	26.14	7013.87	275
4/14/2005	ACM -Soil	Ground Tech	327	00261	Minerva	0848	0919	20.92	7034.79	295.92
4/14/2005	ACM -Soil	Ground Tech	328	00262	Minerva	0858	0930	27.17	7061.96	323.09
4/14/2005	ACM -Soil	R&J	2183	00263	Minerva	0910	0935	26.45	7088.41	349.54
4/14/2005	ACM -Soil	R&J	2197	00264	Minerva	0919	0941	26.25	7114.66	375.79
4/14/2005	ACM -Soil	Chuck Foster	1535	00265	Minerva	1200	1230	31.37	7146.03	407.16
4/14/2005	ACM -Soil	Chuck Foster	1513	00266	Minerva	1209	1237	29.75	7175.78	436.91
4/14/2005	ACM -Soil	R&J	6157	00267	Minerva	1229	1248	29.6	7205.38	466.51
4/14/2005	ACM -Soil	R&J	2269	00268	Minerva	1219	1258	27.97	7233.35	494.48
4/14/2005	ACM -Soil	Chuck Foster	1520	00269	Minerva	1243	1308	27.96	7261.31	522.44

U.S. EPA/Mahoningside Power Plant Non-Hazardous  
Transportation and Disposal Daily Log

4/14/2005	ACM -Soil	Chuck Foster	9253	00270	Minerva	1254	1320	22.37	7283.68	544.81
4/14/2005	ACM -Soil	Chuck Foster	9293	00271	Minerva	1306	1330	24.97	7308.65	569.78
4/14/2005	ACM -Soil	Chuck Foster	1536	00272	Minerva	1315	1357	34.93	7343.58	604.71
4/14/2005	ACM -Soil	R&J	2197	00278	Minerva	1357	1430	36.15	7379.73	640.86
4/14/2005	ACM -Soil	Ground Tech	327	00277	Minerva	1509	1533	31.12	7410.85	671.98
4/14/2005	ACM -Soil	Ground Tech	328	00276	Minerva	1520	1540	37.34	7448.19	<b>709.32</b>
4/15/2005	ACM -Soil	Chuck Foster	1536	00275 00273	Minerva	0700	0736	37.34	7485.53	37.34
4/15/2005	ACM -Soil	Chuck Foster	1535	00274 00274	Minerva	0710	0745	31.12	7516.65	68.46
4/15/2005	ACM -Soil	Chuck Foster	1520	00273 00275	Minerva	0720	0750	36.15	7552.8	104.61
4/15/2005	ACM -Soil	Chuck Foster	9253	00274 00279	Minerva	0730	0758	23.93	7576.73	128.54
4/15/2005	ACM -Soil	Chuck Foster	9821	00275 00280	Minerva	0740	0802	24.22	7600.95	152.76
4/15/2005	ACM -Soil	Ground Tech	327	00276 00281	Minerva	1050	1112	25.45	7626.4	178.21
4/15/2005	ACM -Soil	Chuck Foster	1535	00277 00282	Minerva	1100	1120	25.78	7652.18	203.99
4/15/2005	ACM -Soil	Chuck Foster	1536	00278 00283	Minerva	1120	1155	38.51	7690.69	242.5
4/15/2005	ACM -Soil	Chuck Foster	9821	00279 00284	Minerva	1130	1155	24.21	7714.9	266.71
4/15/2005	ACM -Soil	Chuck Foster	9253	00285	Minerva	1300	1331	16.53	7731.43	<b>283.24</b>
4/18/2005	ACM -Soil	Chuck Foster	1520	00286	Minerva	0700	0724	23.46	7754.89	23.46
4/18/2005	ACM -Soil	Chuck Foster	9253	00287	Minerva	0710	0731	20.08	7774.97	43.54

U.S. EPA/Mahoningside Power Plant Non-Hazardous  
Transportation and Disposal Daily Log

4/18/2005	ACM -Soil	R&J	2269	00288	Minerva	0719	0741	27.98	7802.95	71.52
4/18/2005	ACM -Soil	R&J	6157	00289	Minerva	0726	0749	29.48	7832.43	101
4/18/2005	ACM -Soil	Chuck Foster	9293	00290	Minerva	0734	0755	22.97	7855.4	123.97
4/18/2005	ACM -Soil	Autumn Ind.	742	00291	Minerva	0741	0803	19.8	7875.2	143.77
4/18/2005	ACM -Soil	Autumn Ind.	79601	00292	Minerva	0752	0815	35.67	7910.87	179.44
4/18/2005	ACM -Soil	Chuck Foster	1513	00293	Minerva	0759	0824	26.67	7937.54	206.11
4/18/2005	ACM -Soil	Chuck Foster	1536	00294	Minerva	0809	0835	32.43	7969.97	238.54
4/18/2005	ACM -Soil	Ground Tech	327	00295	Minerva	0817	0840	20.6	7990.57	259.14
4/18/2005	ACM -Soil	Autumn Ind.	78002	00296	Minerva	0827	0855	42.25	8032.82	301.39
4/18/2005	ACM -Soil	R&J	2197	00297	Minerva	0906	0940	25.64	8058.46	327.03
4/18/2005	ACM -Soil	Chuck Foster	1520	00298	Minerva	1146	1215	26.25	8084.71	353.28
4/18/2005	ACM -Soil	Chuck Foster	9253	00299	Minerva	1200	1217	22.36	8107.07	375.64
4/18/2005	ACM -Soil	Chuck Foster	9293	00300	Minerva	1208	1223	28.44	8135.51	404.08
4/18/2005	ACM -Soil	Chuck Foster	1513	00301	Minerva	1213	1235	33.44	8168.95	437.52
4/18/2005	ACM -Soil	R&J	2269	00302	Minerva	1223	1245	30.82	8199.77	468.34
4/18/2005	ACM -Soil	R&J	6157	00303	Minerva	1232	1251	26.77	8226.54	495.11
4/18/2005	ACM -Soil	Chuck Foster	1536	00304	Minerva	1242	1300	34.74	8261.28	529.85
4/18/2005	ACM -Soil	Ground Tech	327	00305	Minerva	1248	1310	19.94	8281.22	549.79

U.S. EPA/Mahoningside Power Plant Non-Hazardous  
Transportation and Disposal Daily Log

4/18/2005	ACM -Soil	Ground Tech	328	00306	Minerva	1301	1325	23.18	8304.4	572.97
4/18/2005	ACM -Soil	R&J	2197	00307	Minerva	1323	1348	28.75	8333.15	<b>601.72</b>
4/19/2005	ACM -Soil	Chuck Foster	1520	00308	Minerva	0700	0725	27.76	8360.91	27.76
4/19/2005	ACM -Soil	Chuck Foster	9253	00309	Minerva	0711	0732	23.59	8384.5	51.35
4/19/2005	ACM -Soil	Chuck Foster	1513	00310	Minerva	0718	0740	30.86	8415.36	82.21
4/19/2005	ACM -Soil	Chuck Foster	9293	00311	Minerva	0726	0750	25.16	8440.52	107.37
4/19/2005	ACM -Soil	Autumn Ind.	79601	00312	Minerva	0741	0804	38.64	8479.16	146.01
4/19/2005	ACM -Soil	R&J	2280	00313	Minerva	0753	0813	27.42	8506.58	173.43
4/19/2005	ACM -Soil	Autumn Ind.	1001	00314	Minerva	0801	0826	36.48	8543.06	209.91
4/19/2005	ACM -Soil	Ground Tech	327	00315	Minerva	0817	0837	23.49	8566.55	233.4
4/19/2005	ACM -Soil	Chuck Foster	1536	00316	Minerva	0827	0850	39.24	8605.79	272.64
4/19/2005	ACM -Soil	R&J	2228	00317	Minerva	0835	0855	28.47	8634.26	301.11
4/19/2005	ACM -Soil	Chuck Foster	1520	00318	Minerva	1055	1115	31.05	8665.31	332.16
4/19/2005	ACM -Soil	Chuck Foster	9253	00319	Minerva	1103	1120	26.27	8691.58	358.43
4/19/2005	ACM -Soil	Chuck Foster	1513	00320	Minerva	1107	1130	34.1	8725.68	392.53
4/19/2005	ACM -Soil	Chuck Foster	9293	00321	Minerva	1117	1135	27.78	8753.46	420.31
4/19/2005	ACM -Soil	R&J	2197	00322	Minerva	1227	1250	28.75	8782.21	449.06
4/19/2005	ACM -Soil	R&J	2280	00323	Minerva	1236	1300	31.24	8813.45	480.3

U.S. EPA/Mahoningside Power Plant Non-Hazardous  
Transportation and Disposal Daily Log

4/19/2005	ACM -Soil	Ground Tech	327	00324	Minerva	1245	1304	19.79	8833.24	500.09
4/19/2005	ACM -Soil	Chuck Foster	1536	00325	Minerva	1252	1320	35.49	8868.73	535.58
4/19/2005	ACM -Soil	Autumn Ind.	79601	00326	Minerva	1330	1355	28.88	8897.61	564.46
4/19/2005	ACM -Soil	Autumn Ind.	1001	00327	Minerva	1340	1415	25.11	8922.72	<b>589.57</b>
4/20/2005	ACM -Soil	Chuck Foster	1520	00328	Minerva	0700	0725	23.95	8946.67	23.95
4/20/2005	ACM -Soil	Chuck Foster	9293	00329	Minerva	0714	0735	23.95	8970.62	47.9
4/20/2005	ACM -Soil	Chuck Foster	1536	00330	Minerva	0726	0745	25.36	8995.98	73.26
4/20/2005	ACM -Soil	Chuck Foster	1513	00331	Minerva	0736	0755	26.6	9022.58	99.86
4/20/2005	ACM -Soil	R&J	2197	00332	Minerva	0748	0809	29.96	9052.54	129.82
4/20/2005	ACM -Soil	Ground Tech	327	00333	Minerva	0757	0820	19.59	9072.13	149.41
4/20/2005	ACM -Soil	Ground Tech	328	00334	Minerva	0810	0830	19.64	9091.77	169.05
4/20/2005	ACM -Soil	R&J	2228	00335	Minerva	0830	0851	25.94	9117.71	194.99
4/20/2005	ACM -Soil	R&J	2280	00336	Minerva	0837	0900	31.79	9149.5	226.78
4/20/2005	ACM -Soil	1Ram	6800	00337	Minerva	0936	1000	24.68	9174.18	251.46
4/20/2005	ACM -Soil	Chuck Foster	9253	00338	Minerva	0944	1010	21.61	9195.79	273.07
4/20/2005	ACM -Soil	Autumn Ind.	79601	00339	Minerva	1002	1040	28.29	9224.08	301.36
4/20/2005	ACM -Soil	Chuck Foster	1520	00340	Minerva	1149	1237	28.4	9252.48	329.76
4/20/2005	ACM -Soil	Chuck Foster	9293	00341	Minerva	1223	1244	24.85	9277.33	354.61

U.S. EPA/Mahoningside Power Plant Non-Hazardous  
Transportation and Disposal Daily Log

4/20/2005	ACM -Soil	R&J	2197	00342	Minerva	1233	1255	30.56	9307.89	385.17
4/20/2005	ACM -Soil	Chuck Foster	1536	00343	Minerva	1242	1307	24.39	9332.28	409.56
4/20/2005	ACM -Soil	Chuck Foster	1513	00344	Minerva	1256	1325	31.43	9363.71	440.99
4/20/2005	ACM -Soil	Ground Tech	327	00345	Minerva	1310	1330	20.31	9384.02	461.3
4/20/2005	ACM -Soil	Ground Tech	328	00346	Minerva	1321	1345	23.21	9407.23	484.51
4/20/2005	ACM -Soil	R&J	2280	00347	Minerva	1327	1350	29.37	9436.6	<b>513.88</b>
4/21/2005	ACM -Soil	Chuck Foster	1513	00348	Minerva	0705	0730	32.97	9469.57	32.97
4/21/2005	ACM -Soil	Chuck Foster	1520	00349	Minerva	0713	0738	29.96	9499.53	62.93
4/21/2005	ACM -Soil	Chuck Foster	9253	00350	Minerva	0723	0745	27.87	9527.4	90.8
4/21/2005	ACM -Soil	Autumn Ind.	79601	00351	Minerva	0732	0755	27.29	9554.69	118.09
4/21/2005	ACM -Soil	Chuck Foster	1536	00352	Minerva	0741	0808	32.11	9586.8	150.2
4/21/2005	ACM -Soil	Chuck Foster	9293	00353	Minerva	0750	0811	28.11	9614.91	178.31
4/21/2005	ACM -Soil	Ground Tech	327	00354	Minerva	0804	0823	23.5	9638.41	201.81
4/21/2005	ACM -Soil	Ground Tech	328	00355	Minerva	0814	0835	23.18	9661.59	224.99
4/21/2005	ACM -Soil	R&J	2280	00356	Minerva	0826	0850	29.32	9690.91	254.31
4/21/2005	ACM -Soil	R&J	2228	00357	Minerva	0833	0900	26.64	9717.55	280.95
4/21/2005	ACM -Soil	Autumn Ind.	2	00358	Minerva	0843	0915	26.76	9744.31	307.71
4/21/2005	ACM -Soil	1Ram	6800	00359	Minerva	No time	1042	25.48	9769.79	333.19

U.S. EPA/Mahoningside Power Plant Non-Hazardous  
Transportation and Disposal Daily Log

4/21/2005	ACM -Soil	Chuck Foster	1513	00360	Minerva	No time	1115	32.92	9802.71	366.11
4/21/2005	ACM -Soil	Berner	135	00361	Minerva	No time	1205	23.11	9825.82	389.22
4/21/2005	ACM -Soil	Chuck Foster	1520	00362	Minerva	No time	1219	28.67	9854.49	417.89
4/21/2005	ACM -Soil	Chuck Foster	9253	00363	Minerva	No time	1230	28.98	9883.47	446.87
4/21/2005	ACM -Soil	Chuck Foster	1536	00364	Minerva	No time	1256	33.75	9917.22	480.62
4/21/2005	ACM -Soil	Chuck Foster	9293	00365	Minerva	No time	1305	26.09	9943.31	506.71
4/21/2005	ACM -Soil	Berner	62	00366	Minerva	No time	1330	25.52	9968.83	532.23
4/21/2005	ACM -Soil	Ground Tech	327	00367	Minerva	No time	1344	21.67	9990.5	553.9
4/21/2005	ACM -Soil	Ground Tech	328	00368	Minerva	No time	1350	21.26	10011.76	<b>575.16</b>
7/11/2005	ACM -Soil	R&J	6157	00369	Minerva	No time	0730	25.47	10037.23	600.63
7/11/2005	ACM -Soil	R&J	2269	00370	Minerva	No time	0745	24.12	10061.35	624.75
7/1/2005	ACM -Soil	Gentile	1630	00371	Minerva	No time	0805	31.24	10092.59	655.99
7/1/2005	ACM -Soil	Gentile	1950	00372	Minerva	No time	0820	25.92	10118.51	681.91
7/1/2005	ACM -Soil	Ground Tech	328	00373	Minerva	No time	0825	27.6	10146.11	709.51
7/1/2005	ACM -Soil	R&J	2197	00374	Minerva	No time	0835	26.17	10172.28	735.68
7/1/2005	ACM -Soil	Chuck Foster	1520	00375	Minerva	No time	0845	36.24	10208.52	771.92
7/1/2005	ACM -Soil	Chuck Foster	9253	00376	Minerva	No time	0900	26.41	10234.93	798.33
7/1/2005	ACM -Soil	Chuck Foster	1535	00377	Minerva	No time	0910	30.11	10265.04	828.44

U.S. EPA/Mahoningside Power Plant Non-Hazardous  
Transportation and Disposal Daily Log

7/11/2005	ACM -Soil	Chuck Foster	1513	00378	Minerva	No time	0920	32.44	10297.48	860.88
7/12/2005	ACM -Soil	Chuck Foster	9580	00379	Minerva	No time	0935	35.23	10332.71	896.11
7/12/2005	ACM -Soil	R&J	2269	00380	Minerva	0645	0715	21.15	10353.86	917.26
7/12/2005	ACM -Soil	Gentile	1950	00381	Minerva	0700	0720	23.19	10377.05	940.45
7/12/2005	ACM -Soil	Ground Tech	328	00382	Minerva	0713	0730	21.2	10398.25	961.65
7/12/2005	ACM -Soil	Chuck Foster	1520	00383	Minerva	0725	0745	30.02	10428.27	991.67
7/12/2005	ACM -Soil	Chuck Foster	9253	00384	Minerva	0738	0755	28.37	10456.64	1020.04
7/12/2005	ACM -Soil	R&J	6157	00385	Minerva	0750	0805	25.44	10482.08	1045.48
7/12/2005	ACM -Soil	Chuck Foster	535	00386	Minerva	0800	0820	28.72	10510.8	1074.2
7/12/2005	ACM -Soil	R&J	2197	00387	Minerva	0808	0830	30.26	10541.06	1104.46
7/12/2005	ACM -Soil	Chuck Foster	1543	00388	Minerva	0825	0845	28.03	10569.09	1132.49
7/12/2005	ACM -Soil	Chuck Foster	1513	00389	Minerva	0837	0900	31.31	10600.4	1163.8
7/13/2005	ACM -Soil	R&J	6157	00390	Minerva	07000647	0710	26.82	10627.22	1190.62
7/13/2005	ACM -Soil	R&J	2269	00391	Minerva	0700	0720	24.66	10651.88	1215.28
7/13/2005	ACM -Soil	Chuck Foster	1535	00392	Minerva	0711	0740	30.7	10682.58	1245.98
7/13/2005	ACM -Soil	Gentile	1950	00393	Minerva	0730	0755	25.71	10708.29	1271.69
7/13/2005	ACM -Soil	Gentile	1630	00394	Minerva	0739	0810	31.94	10740.23	1303.63
7/13/2005	ACM -Soil	Chuck Foster	1520	00395	Minerva	0800	0830	28.28	10768.51	1331.91

U.S. EPA/Mahoningside Power Plant Non-Hazardous  
Transportation and Disposal Daily Log

7/13/2005	ACM -Soil	Chuck Foster	9253	00396	Minerva	0812	0840	29.91	10798.42	1361.82
7/13/2005	ACM -Soil	Ground Tech	327	00397	Minerva	0820	0900	23.46	10821.88	1385.28
7/13/2005	ACM -Soil	Chuck Foster	1547	00398	Minerva	0835	0915	35.79	10857.67	1421.07
7/13/2005	ACM -Soil	Chuck Foster	1513	00399	Minerva	0850	0925	28.76	10886.43	1449.83
7/14/2005	ACM -Soil	Chuck Foster	1535	00400	Minerva	0650	0720	29.73	10916.16	1479.56
7/14/2005	ACM -Soil	R&J	2269	00401	Minerva	0710	0735	26.45	10942.61	1506.01
7/14/2005	ACM -Soil	R&J	6157	00402	Minerva	0727	0750	27.26	10969.87	1533.27
7/14/2005	ACM -Soil	Gentile	1630	00403	Minerva	0743	0805	33.24	11003.11	1566.51
7/14/2005	ACM -Soil	Gentile	1950	00404	Minerva	0757	0820	27.47	11030.58	1593.98
7/14/2005	ACM -Soil	Chuck Foster	1520	00405	Minerva	0814	0840	29.77	11060.35	1623.75
7/14/2005	ACM -Soil	Chuck Foster	9253	00406	Minerva	0833	0900	26.4	11086.75	1650.15
7/14/2005	ACM -Soil	Chuck Foster	1513	00407	Minerva	0847	0910	29.25	11116	1679.4
7/14/2005	ACM -Soil	Ground Tech	327	00408	Minerva	0900	0930	24.79	11140.79	1704.19
7/14/2005	ACM -Soil	Chuck Foster	1547	00409	Minerva	0918	0940	32.1	11172.89	1736.29
7/15/2005	ACM -Soil	Chuck Foster	1535	00410	Minerva	0635	0715	30.69	11203.58	1766.98
7/15/2005	ACM -Soil	Chuck Foster	1520	00411	Minerva	0726	0750	32.71	11236.29	1799.69
7/15/2005	ACM -Soil	Chuck Foster	9253	00412	Minerva	0737	0800	23.33	11259.62	1823.02
7/15/2005	ACM -Soil	R&J	2269	00413	Minerva	0747	0810	27.77	11287.39	1850.79

U.S. EPA/Mahoningside Power Plant Non-Hazardous  
Transportation and Disposal Daily Log

7/15/2005	ACM -Soil	R&J	6157	00414	Minerva	0757	0815	23.58	11310.97	1874.37
7/15/2005	ACM -Soil	Gentile	1950	00415	Minerva	0807	0835	24.77	11335.74	1899.14
7/15/2005	ACM -Soil	Gentile	1630	00416	Minerva	0819	0840	34.43	11370.17	1933.57
7/15/2005	ACM -Soil	Ground Tech	328	00417	Minerva	0839	0900	25.89	11396.06	1959.46
7/15/2005	ACM -Soil	Ground Tech	327	00418	Minerva	0846	0910	24.37	11420.43	1983.83
7/15/2005	ACM -Soil	R&J	2197	00419	Minerva	0851	0915	28.29	11448.72	2012.12
7/15/2005	ACM -Soil	Chuck Foster	1547	00420	Minerva	0900	0925	30.19	11478.91	2042.31
7/15/2005	ACM -Soil	Chuck Foster	1513	00421	Minerva	0908	0935	28.65	11507.56	2070.96
7/15/2005	ACM -Soil	Chuck Foster	1535	00422	Minerva	1130	1155	26.5	11534.06	2097.46
7/15/2005	ACM -Soil	Chuck Foster	1520	00423	Minerva	1140	1210	28.2	11562.26	2125.66
7/15/2005	ACM -Soil	Chuck Foster	9253	00424	Minerva	1155	1220	23.13	11585.39	2148.79
7/15/2005	ACM -Soil	Chuck Foster	1547	00425	Minerva	1300	1330	32.61	11618	2181.4
7/15/2005	ACM -Soil	Chuck Foster	1513	00426	Minerva	1321	1340	30.7	11648.7	2212.1
7/15/2005	ACM -Soil	Ground Tech	328	00427	Minerva	1332	1350	24.17	11672.87	2236.27
7/15/2005	ACM -Soil	Ground Tech	327	00428	Minerva	1345	1405	25.06	11697.93	2261.33
7/15/2005	ACM -Soil	R&J	2197	00429	Minerva	1358	1415	27.29	11725.22	2288.62
7/15/2005	ACM -Soil	R&J	6157	00430	Minerva	1400	1515	26.34	11751.56	2314.96
7/18/2005	ACM -Soil	Chuck Foster	1535	00431	Minerva	0700	0715	28.87	11780.43	2343.83

U.S. EPA/Mahoningside Power Plant Non-Hazardous  
Transportation and Disposal Daily Log

7/18/2005	ACM -Soil	Chuck Foster	1520	00432	Minerva	0716	0740	25.76	11806.19	2369.59
7/18/2005	ACM -Soil	R&J	6157	00433	Minerva	0728	0745	23.5	11829.69	2393.09
7/18/2005	ACM -Soil	R&J	2269	00434	Minerva	0736	0800	24.88	11854.57	2417.97
7/18/2005	ACM -Soil	Gentile	1950	00435	Minerva	0742	0810	24.02	11878.59	2441.99
7/18/2005	ACM -Soil	Ground Tech	328	00436	Minerva	0800	0815	20.93	11899.52	2462.92
7/18/2005	ACM -Soil	Ground Tech	327	00437	Minerva	0812	0830	26.38	11925.9	2489.3
7/18/2005	ACM -Soil	Gentile	1630	00438	Minerva	0824	0840	26.04	11951.94	2515.34
7/18/2005	ACM -Soil	R&J	2197	00439	Minerva	0834	0850	27.37	11979.31	2542.71
7/18/2005	ACM -Soil	Chuck Foster	1547	00440	Minerva	0841	0855	32.61	12011.92	2575.32
7/18/2005	ACM -Soil	Chuck Foster	1513	00441	Minerva	0848	0910	27.15	12039.07	2602.47
7/18/2005	ACM -Soil	Chuck Foster	1535	00442	Minerva	0900	1120	28.51	12067.58	2630.98
7/18/2005	ACM -Soil	R&J	6157	00443	Minerva	1130	1200	27.1	12094.68	2658.08
7/18/2005	ACM -Soil	R&J	2269	00444	Minerva	1138	1210	29.16	12123.84	2687.24
7/18/2005	ACM -Soil	Gentile	1950	00445	Minerva	1147	1220	24.75	12148.59	2711.99
7/18/2005	ACM -Soil	Ground Tech	328	00446	Minerva	1217	1230	24.22	12172.81	2736.21
7/18/2005	ACM -Soil	Ground Tech	327	00447	Minerva	1225	1240	28.1	12200.91	2764.31
7/18/2005	ACM -Soil	Chuck Foster	1547	00448	Minerva	1235	1250	35.88	12236.79	2800.19
7/18/2005	ACM -Soil	R&J	2197	00449	Minerva	1247	1305	29.46	12266.25	2829.65

U.S. EPA/Mahoningside Power Plant Non-Hazardous  
Transportation and Disposal Daily Log

7/18/2005	ACM -Soil	Chuck Foster	1513	00450	Minerva	1300	1315	32.52	12298.77	2862.17
7/19/2005	ACM -Soil	Chuck Foster	1535	00451	Minerva	0649	0705	29.09	12327.86	2891.26
7/19/2005	ACM -Soil	Chuck Foster	9253	00452	Minerva	0658	0715	19.85	12347.71	2911.11
7/19/2005	ACM -Soil	R&J	2269	00453	Minerva	0707	0720	27.82	12375.53	2938.93
7/19/2005	ACM -Soil	R&J	6157	00454	Minerva	0716	0740	27.04	12402.57	2965.97
7/19/2005	ACM -Soil	Gentile	1950	00454	Minerva	0724	0750	29.49	12432.06	2995.46
7/19/2005	ACM -Soil	Ground Tech	328	00456	Minerva	0733	0755	21.99	12454.05	3017.45
7/19/2005	ACM -Soil	Ground Tech	327	00457	Minerva	0742	0800	21.82	12475.87	3039.27
7/19/2005	ACM -Soil	Chuck Foster	1547	00458	Minerva	0751	0810	33.74	12509.61	3073.01
7/19/2005	ACM -Soil	Chuck Foster	1513	00459	Minerva	0800	0815	33	12542.61	3106.01
7/19/2005	ACM -Soil	R&J	2197	00460	Minerva	0810	0825	28.41	12571.02	3134.42
7/19/2005	ACM -Soil	Gentile	1630	00461	Minerva	0948	1010	32.9	12603.92	3167.32
7/19/2005	ACM -Soil	Chuck Foster	1535	00462	Minerva	1122	1140	33.72	12637.64	3201.04
7/19/2005	ACM -Soil	Chuck Foster	9253	00463	Minerva	1130	1150	28.21	12665.85	3229.25
7/19/2005	ACM -Soil	Chuck Foster	9251	00464	Minerva	1140	1155	28.05	12693.9	3257.3
7/19/2005	ACM -Soil	Chuck Foster	8230	00465	Minerva	1148	1205	26.97	12720.87	3284.27
7/19/2005	ACM -Soil	R&J	2269	00466	Minerva	1157	1210	26.78	12747.65	3311.05
7/19/2005	ACM -Soil	R&J	6157	00467	Minerva	1205	1220	27.93	12775.58	3338.98

U.S. EPA/Mahoningside Power Plant Non-Hazardous  
Transportation and Disposal Daily Log

7/19/2005	ACM -Soil	Ground Tech	328	00468	Minerva	1213	1230	23.96	12799.54	3362.94
7/19/2005	ACM -Soil	Ground Tech	327	00469	Minerva	1223	1240	23.48	12823.02	3386.42
7/19/2005	ACM -Soil	Chuck Foster	1347	00470	Minerva	1232	1250	35.14	12858.16	3421.56
7/19/2005	ACM -Soil	Chuck Foster	1513	00471	Minerva	1240	1300	29.26	12887.42	3450.82
7/19/2005	ACM -Soil	R&J	2197	00472	Minerva	1250	1310	28.43	12915.85	3479.25
7/20/2005	ACM -Soil	Chuck Foster	1535	00473	Minerva	0649	0700	27.79	12943.64	3507.04
7/20/2005	ACM -Soil	Chuck Foster	9162	00474	Minerva	0657	0715	31.63	12975.27	3538.67
7/20/2005	ACM -Soil	Chuck Foster	9253	00475	Minerva	0705	0725	21.87	12997.14	3560.54
7/20/2005	ACM -Soil	R&J	2269	00476	Minerva	0714	0730	28.08	13025.22	3588.62
7/20/2005	ACM -Soil	R&J	6157	00477	Minerva	0722	0735	27.76	13052.98	3616.38
7/20/2005	ACM -Soil	Gentile	1630	00478	Minerva	0731	0745	32.9	13085.88	3649.28
7/20/2005	ACM -Soil	R&J	2017	00479	Minerva	0739	0755	26.34	13112.22	3675.62
7/20/2005	ACM -Soil	Ground Tech	328	00480	Minerva	0748	0805	25.14	13137.36	3700.76
7/20/2005	ACM -Soil	Ground Tech	327	00481	Minerva	0757	0815	27.68	13165.04	3728.44
7/20/2005	ACM -Soil	R&J	2197	00482	Minerva	0806	0825	27.88	13192.92	3756.32
7/20/2005	ACM -Soil	Chuck Foster	1547	00483	Minerva	0815	0830	34.88	13227.8	3791.2
7/20/2005	ACM -Soil	Chuck Foster	1513	00484	Minerva	0823	0840	34.39	13262.19	3825.59
7/20/2005	ACM -Soil	R&J	2187	00485	Minerva	0832	0850	29.53	13291.72	3855.12

U.S. EPA/Mahoningside Power Plant Non-Hazardous  
Transportation and Disposal Daily Log

7/20/2005	ACM -Soil	R&J	2266	00486	Minerva	1010	1025	28.59	13320.31	3883.71
7/20/2005	ACM -Soil	Chuck Foster	1535	00487	Minerva	1037	1050	31.02	13351.33	3914.73
7/20/2005	ACM -Soil	Chuck Foster	9162	00488	Minerva	1106	1120	30.32	13381.65	3945.05
7/20/2005	ACM -Soil	Chuck Foster	9253	00489	Minerva	1114	1130	23.85	13405.5	3968.9
7/20/2005	ACM -Soil	R&J	2269	00490	Minerva	1124	1200	26.77	13432.27	3995.67
7/20/2005	ACM -Soil	Gentile	1630	00491	Minerva	1130	1210	39.81	13472.08	4035.48
7/20/2005	ACM -Soil	Ground Tech	328	00492	Minerva	1213	1225	28.21	13500.29	4063.69
7/20/2005	ACM -Soil	Ground Tech	327	00493	Minerva	1220	1235	29.18	13529.47	4092.87
7/20/2005	ACM -Soil	Chuck Foster	1547	00494	Minerva	1229	1245	32.94	13562.41	4125.81
7/20/2005	ACM -Soil	R&J	2197	00495	Minerva	1237	1255	28.8	13591.21	4154.61
7/20/2005	ACM -Soil	R&J	2017	00496	Minerva	1246	1300	26.75	13617.96	4181.36
7/20/2005	ACM -Soil	Chuck Foster	1513	00497	Minerva	1256	1310	28.28	13646.24	4209.64
7/20/2005	ACM -Soil	R&J	2280	00498	Minerva	1326	1340	31.07	13677.31	4240.71
7/20/2005	ACM -Soil	R&J	2187	00499	Minerva	1430	1450	28.9	13706.21	4269.61
7/21/2005	ACM -Soil	Chuck Foster	1535	00500	Minerva	0706	0725	32.96	13739.17	4302.57
7/21/2005	ACM -Soil	Chuck Foster	9253	00501	Minerva	0714	0735	23.19	13762.36	4325.76
7/21/2005	ACM -Soil	R&J	6129	00502	Minerva	0729	0745	28.4	13790.76	4354.16
7/21/2005	ACM -Soil	Wills	226	00503	Minerva	0742	0805	23.73	13814.49	4377.89

U.S. EPA/Mahoningside Power Plant Non-Hazardous  
Transportation and Disposal Daily Log

7/21/2005	ACM -Soil	Gentile	1950	00504	Minerva	0752	0810	21.75	13836.24	4399.64
7/21/2005	ACM -Soil	R&J	2017	00505	Minerva	0801	0815	22.7	13858.94	4422.34
7/21/2005	ACM -Soil	Ground Tech	328	00506	Minerva	0811	0825	20.01	13878.95	4442.35
7/21/2005	ACM -Soil	Ground Tech	327	00507	Minerva	0819	0835	24.1	13903.05	4466.45
7/21/2005	ACM -Soil	Gentile	1630	00508	Minerva	0828	0845	29.49	13932.54	4495.94
7/21/2005	ACM -Soil	R&J	2197	00509	Minerva	0837	0855	30.2	13962.74	4526.14
7/21/2005	ACM -Soil	Chuck Foster	93	00510	Minerva	0853	0910	32.24	13994.98	4558.38
7/21/2005	ACM -Soil	Chuck Foster	1547	00511	Minerva	0845	0900	35.89	14030.87	4594.27
7/21/2005	ACM -Soil	Wills	60124	00512	Minerva	0904	0920	28.6	14059.47	4622.87
7/21/2005	ACM -Soil	Wills	60114	00513	Minerva	0914	0935	28.36	14087.83	4651.23
7/21/2005	ACM -Soil	R&J	2187	00514	Minerva	1130	1150	23.84	14111.67	4675.07
7/21/2005	ACM -Soil	R&J	6129	00515	Minerva	1159	1210	28.67	14140.34	4703.74
7/21/2005	ACM -Soil	Chuck Foster	1535	00516	Minerva	1206	1220	26.17	14166.51	4729.91
7/21/2005	ACM -Soil	Chuck Foster	9253	00517	Minerva	1214	1225	22.93	14189.44	4752.84
7/21/2005	ACM -Soil	Gentile	1950	00518	Minerva	1223	1300	27.07	14216.51	4779.91
7/21/2005	ACM -Soil	R&J	2017	00519	Minerva	1232	1310	27.76	14244.27	4807.67
7/21/2005	ACM -Soil	Ground Tech	328	00520	Minerva	1312	1330	21.86	14266.13	4829.53
7/21/2005	ACM -Soil	Ground Tech	327	00521	Minerva	1321	1335	23.58	14289.71	4853.11

U.S. EPA/Mahoningside Power Plant Non-Hazardous  
Transportation and Disposal Daily Log

7/21/2005	ACM -Soil	Chuck Foster	1547	00522	Minerva	1329	1345	35.04	14324.75	4888.15
7/21/2005	ACM -Soil	Chuck Foster	1513	00523	Minerva	1339	1355	32.7	14357.45	4920.85
7/21/2005	ACM -Soil	R&J	2197	00524	Minerva	1348	1405	32.43	14389.88	4953.28
7/21/2005	ACM -Soil	Gentile	1630	00525	Minerva	1359	1415	31.42	14421.3	4984.7
7/21/2005	ACM -Soil	Wills	226	00526	Minerva	1412	1430	27	14448.3	5011.7
7/22/2005	ACM -Soil	Chuck Foster	1535	00527	Minerva	0650	0705	30.86	14479.16	5042.56
7/22/2005	ACM -Soil	Chuck Foster	1547	00528	Minerva	0702	0720	35	14514.16	5077.56
7/22/2005	ACM -Soil	Chuck Foster	9253	00529	Minerva	0710	0730	24.4	14538.56	5101.96
7/22/2005	ACM -Soil	Chuck Foster	1513	00530	Minerva	0721	0735	35.78	14574.34	5137.74
7/22/2005	ACM -Soil	R&J	2269	00531	Minerva	0730	0750	30.06	14604.4	5167.8
7/22/2005	ACM -Soil	R&J	6157	00532	Minerva	0738	0755	27.73	14632.13	5195.53
7/22/2005	ACM -Soil	Gentile	1950	00533	Minerva	0747	0800	24.55	14656.68	5220.08
7/22/2005	ACM -Soil	R&J	2017	00534	Minerva	0759	0815	25.21	14681.89	5245.29
7/22/2005	ACM -Soil	Ground Tech	328	00535	Minerva	0810	0825	27.17	14709.06	5272.46
7/22/2005	ACM -Soil	Ground Tech	327	00536	Minerva	0819	0835	26.86	14735.92	5299.32
7/22/2005	ACM -Soil	Wills	60114	00537	Minerva	0830	0850	29.41	14765.33	5328.73
7/22/2005	ACM -Soil	Wills	60124	00538	Minerva	0842	0900	27.05	14792.38	5355.78
7/22/2005	ACM -Soil	Wills	60167	00539	Minerva	0853	0910	26.27	14818.65	5382.05

U.S. EPA/Mahoningside Power Plant Non-Hazardous  
Transportation and Disposal Daily Log

7/22/2005	ACM -Soil	R&J	2197	00540	Minerva	1021	1035	28.44	14847.09	5410.49
7/22/2005	ACM -Soil	Chuck Foster	1535	00541	Minerva	1106	1120	26.97	14874.06	5437.46
7/22/2005	ACM -Soil	Chuck Foster	1547	00542	Minerva	1116	1135	28.78	14902.84	5466.24
7/22/2005	ACM -Soil	Chuck Foster	8230	00543	Minerva	1126	1140	21.13	14923.97	5487.37
7/22/2005	ACM -Soil	R&J	2187	00544	Minerva	1158	1215	21.84	14945.81	5509.21
7/22/2005	ACM -Soil	Chuck Foster	1513	00545	Minerva	1206	1220	29.03	14974.84	5538.24
7/22/2005	ACM -Soil	R&J	6157	00546	Minerva	1215	1230	27.86	15002.7	5566.1
7/22/2005	ACM -Soil	R&J	2269	00547	Minerva	1222	1240	26.64	15029.34	5592.74
7/22/2005	ACM -Soil	Gentile	1950	00548	Minerva	1232	1250	24.37	15053.71	5617.11
8/5/2005	ACM -Soil	NA	NA	NA	Minerva	NA	NA	26.39	15080.1	NA
8/5/2005	ACM -Soil	NA	NA	NA	Minerva	NA	NA	17.58	15097.68	NA
8/5/2005	ACM -Soil	NA	NA	NA	Minerva	NA	NA	18.91	15116.59	NA
8/5/2005	ACM -Soil	NA	NA	NA	Minerva	NA	NA	29.04	15145.63	NA
8/5/2005	ACM -Soil	NA	NA	NA	Minerva	NA	NA	22.04	<b>15167.67</b>	NA

## Hazardous Waste Table

**U.S. EPA/Mahoningside Power Plant**  
**TSCA Waste**  
**Transportation and Disposal Daily Log**

<u>Shipping Date</u>	<u>Waste Type</u>	<u>Transport Company</u>	<u>Truck Number</u>	<u>Document Number</u>	<u>Manifest Number</u>	<u>Disposal Location</u>	<u>Actual Tonnage</u>
3/4/2005	TSCA	US Bulk	Unk.	02001	MI9868111	EQ	30.19
3/9/2005	TSCA	US Bulk	160-2	02002	MI9868112	EQ	27.29
3/9/2005	TSCA	US Bulk	160	02003	MI9868113	EQ	27.23
3/9/2005	TSCA	US Bulk	160-3	02004	MI9868114	EQ	24.42
3/9/2005	TSCA	US Bulk	155	02005	MI9868115	EQ	29.6
3/9/2005	TSCA	US Bulk	192-2	02006	MI9868116	EQ	29.59
3/9/2005	TSCA	US Bulk	149	02007	MI9868117	EQ	23.83
3/9/2005	TSCA	US Bulk	186	02008	MI9868118	EQ	21.48
3/9/2005	TSCA	US Bulk	156	02009	MI9868119	EQ	30.57
3/9/2005	TSCA	US Bulk	148	02010	MI9868120	EQ	31.09
3/9/2005	TSCA	US Bulk	166	02011	MI9868121	EQ	26.65
3/10/2005	TSCA	US Bulk	155	02012	MI9868122	EQ	27.7
3/10/2005	TSCA	US Bulk	192-2	02013	MI9868123	EQ	26.5
3/10/2005	TSCA	US Bulk	160-2	02014	MI9868124	EQ	27.72
3/10/2005	TSCA	US Bulk	156	02015	MI9868125	EQ	37.46
3/10/2005	TSCA	US Bulk		02016	MI9868126	EQ	23.21
3/10/2005	TSCA	US Bulk	186	02017	MI9868127	EQ	22.89
3/10/2005	TSCA	US Bulk	146	02018	MI9868128	EQ	26.19
3/10/2005	TSCA	US Bulk	436	02019	MI9868129	EQ	18.4
3/10/2005	TSCA	US Bulk	166	02020	MI9868130	EQ	28.36
3/10/2005	TSCA	US Bulk	123	02021	MI9868131	EQ	27.01
3/10/2005	TSCA	US Bulk	197	02022	MI9868132	EQ	26.07
3/11/2005	TSCA	US Bulk	160-2	02023	MI9868154	EQ	28.76
3/11/2005	TSCA	US Bulk	156	02024	MI9868155	EQ	26.61
3/11/2005	TSCA	US Bulk	180-A	02025	MI9868156	EQ	38.77
3/11/2005	TSCA	US Bulk	1270	02026	MI9868157	EQ	26.84
3/11/2005	TSCA	US Bulk	1273	02027	MI9868158	EQ	26.69
3/11/2005	TSCA	US Bulk	179	02028	MI9868159	EQ	21.9
3/11/2005	TSCA	US Bulk	148	02029	MI9868160	EQ	26.97
3/11/2005	TSCA	US Bulk	1278	02030	MI9868161	EQ	26.97

**U.S. EPA/Mahoningside Power Plant**  
**TSCA Waste**  
**Transportation and Disposal Daily Log**

<u>Shipping Date</u>	<u>Waste Type</u>	<u>Transport Company</u>	<u>Truck Number</u>	<u>Document Number</u>	<u>Manifest Number</u>	<u>Disposal Location</u>	<u>Actual Tonnage</u>
3/11/2005	TSCA	US Bulk	403	02031	MI9868162	EQ	26.19
3/11/2005	TSCA	US Bulk	1246	02032	MI9868163	EQ	24.82
3/11/2005	TSCA	US Bulk	436	02033	MI9868164	EQ	23.05
3/11/2005	TSCA	US Bulk	166	02034	MI9868165	EQ	22.66
3/15/2005	TSCA	US Bulk	155	02035	MI9868152	EQ	27.39
3/15/2005	TSCA	US Bulk	101	02036	MI9868151	EQ	26.08
3/15/2005	TSCA	US Bulk	508	02037	MI9868153	EQ	26
3/15/2005	TSCA	US Bulk	501	02038	MI9868150	EQ	25.1
3/23/2005	TSCA	US Bulk	155	02039	MI9868166	EQ	27.82
3/23/2005	TSCA	US Bulk	192-2	02040	MI9869133	EQ	24.36
3/23/2005	TSCA	US Bulk	103-8	02041	MI9868134	EQ	27.25
3/23/2005	TSCA	US Bulk	156	02042	MI9868135	EQ	26.73
3/23/2005	TSCA	US Bulk	402	02043	MI9868136	EQ	37.27
3/23/2005	TSCA	US Bulk	149	02044	MI9868137	EQ	24.68
3/23/2005	TSCA	US Bulk	144	02045	MI9868138	EQ	29.71
3/23/2005	TSCA	US Bulk	504	02047	MI9868140	EQ	25.02
3/23/2005	TSCA	US Bulk	301-2	02046	MI9868139	EQ	23.42
3/23/2005	TSCA	US Bulk	301-10	02048	MI9868141	EQ	23.65
3/23/2005	TSCA	US Bulk	506	02049	MI9868142	EQ	24.21
3/23/2005	TSCA	US Bulk	511	02050	MI9868143	EQ	21.9
3/23/2005	TSCA	US Bulk	179A	02051	MI9868144	EQ	26.01
3/23/2005	TSCA	US Bulk	403	02052	MI9868145	EQ	38.26
3/23/2005	TSCA	US Bulk	148	02053	MI9868147	EQ	25.65
3/23/2005	TSCA	US Bulk	Fuscia	02054	MI9868148	EQ	28.01
4/5/2005	TSCA	US Bulk	155	02055	MI9868149	EQ	30.49
4/5/2005	TSCA	US Bulk	192-2	02056	MI9867473	EQ	34.36
4/5/2005	TSCA	US Bulk	160-2	02057	MI9867457	EQ	27.08
4/5/2005	TSCA	US Bulk	186	02058	MI9867458	EQ	25.74
4/5/2005	TSCA	US Bulk	156	02059	MI9867459	EQ	29.55
4/5/2005	TSCA	US Bulk	148	02060	MI9867460	EQ	26.98

**U.S. EPA/Mahoningside Power Plant**  
**TSCA Waste**  
**Transportation and Disposal Daily Log**

<u>Shipping Date</u>	<u>Waste Type</u>	<u>Transport Company</u>	<u>Truck Number</u>	<u>Document Number</u>	<u>Manifest Number</u>	<u>Disposal Location</u>	<u>Actual Tonnage</u>
4/5/2005	TSCA	US Bulk	436	02061	MI9867461	EQ	30.51
4/5/2005	TSCA	US Bulk	192-A	02070	MI9867462	EQ	31.56
4/5/2005	TSCA	Dart	585	02071	MI9867463	EQ	17.9
4/5/2005	TSCA	US Bulk	180	02072	MI9867464	EQ	26.76
4/5/2005	TSCA	US Bulk	800	02063	MI9867465	EQ	26.43
4/5/2005	TSCA	US Bulk	626	02062	MI9867466	EQ	24.38
7/11/2005	TSCA	US Bulk	1505	02067	MI9887939	EQ	25.11
7/11/2005	TSCA	US Bulk	178	02068	MI9887940	EQ	24.28
7/11/2005	TSCA	US Bulk	123	02069	MI9887958	EQ	23.86
7/11/2005	TSCA	US Bulk	102	02070	MI9887957	EQ	27.51
7/11/2005	TSCA	US Bulk	160-2	02071	MI9887956	EQ	25.56
7/11/2005	TSCA	US Bulk	186	02072	MI9887955	EQ	23.97
7/11/2005	TSCA	US Bulk	155	02073	MI9887954	EQ	34.51
7/11/2005	TSCA	US Bulk	192-2	02074	MI9887953	EQ	22.33
7/11/2005	TSCA	US Bulk	192-3	02075	MI9887952	EQ	21.02
7/11/2005	TSCA	US Bulk	192	02076	MI9887951	EQ	22.93
7/11/2005	TSCA	US Bulk	1038	02077	MI9887950	EQ	24.4
7/11/2005	TSCA	US Bulk	220	02078	MI9887949	EQ	27.68
7/11/2005	TSCA	US Bulk	148	02079	MI9887948	EQ	27.19
7/11/2005	TSCA	US Bulk	105	02080	MI9887947	EQ	20.93
7/11/2005	TSCA	US Bulk	311-2	02081	MI9887946	EQ	20.78
7/11/2005	TSCA	US Bulk	311-4	02082	MI9887945	EQ	22.3
7/11/2005	TSCA	US Bulk	179	02083	MI9887944	EQ	24.41
7/11/2005	TSCA	US Bulk	222	02084	MI9887943	EQ	23.05
7/11/2005	TSCA	US Bulk	180	02085	MI9887942	EQ	24.54
7/11/2005	TSCA	US Bulk		02086	MI9887941	EQ	25.64
7/12/2005	TSCA	US Bulk	178	02086	MI9887899	EQ	26.98
7/12/2005	TSCA	US Bulk	102	02087	MI9887900	EQ	30.78
7/12/2005	TSCA	US Bulk	186	02088	MI9887901	EQ	23.66
7/12/2005	TSCA	US Bulk	160-2	02089	MI9887902	EQ	25.54

**U.S. EPA/Mahoningside Power Plant**  
**TSCA Waste**  
**Transportation and Disposal Daily Log**

<u>Shipping Date</u>	<u>Waste Type</u>	<u>Transport Company</u>	<u>Truck Number</u>	<u>Document Number</u>	<u>Manifest Number</u>	<u>Disposal Location</u>	<u>Actual Tonnage</u>
7/12/2005	TSCA	US Bulk	103-8	02090	MI9887903	EQ	34.13
7/12/2005	TSCA	US Bulk	1505	02091	MI9887904	EQ	28.31
7/12/2005	TSCA	US Bulk	192-2	02092	MI9887905	EQ	26.12
7/12/2005	TSCA	US Bulk	155	02093	MI9887906	EQ	24.56
7/12/2005	TSCA	US Bulk	148	02094	MI9887907	EQ	26.33
7/12/2005	TSCA	US Bulk	192-3	02095	MI9887908	EQ	23.95
7/12/2005	TSCA	US Bulk	192	02096	MI9887909	EQ	24.66
7/12/2005	TSCA	US Bulk	1270	02097	MI9887910	EQ	25.46
7/12/2005	TSCA	US Bulk	35	02098	MI9887911	EQ	22.42
7/12/2005	TSCA	US Bulk	222	02099	MI9887912	EQ	28.26
7/12/2005	TSCA	US Bulk	220	02100	MI9887913	EQ	23.68
7/12/2005	TSCA	US Bulk	180	02101	MI9887914	EQ	28.26
7/12/2005	TSCA	US Bulk	179	02102	MI9887915	EQ	25.86
7/12/2005	TSCA	US Bulk	311-4	02103	MI9887916	EQ	23.95
7/12/2005	TSCA	US Bulk	311-2	02104	MI9887917	EQ	21.94
7/12/2005	TSCA	US Bulk	107	02105	MI9887918	EQ	23.56
7/13/2005	TSCA	US Bulk	105A	02106	MI9887919	EQ	23.02
7/13/2005	TSCA	US Bulk	186	02107	MI9887920	EQ	22.81
7/13/2005	TSCA	US Bulk	160-2	02108	MI9887921	EQ	26.97
7/13/2005	TSCA	US Bulk	149	02109	MI9887922	EQ	27.28
7/13/2005	TSCA	US Bulk	1505	02110	MI9887923	EQ	25.56
7/13/2005	TSCA	US Bulk	103-8	02111	MI9887924	EQ	27.01
7/13/2005	TSCA	US Bulk	1273	02112	MI9887925	EQ	24.52
7/13/2005	TSCA	US Bulk	163	02113	MI9887926	EQ	24.37
7/13/2005	TSCA	US Bulk	192-3	02114	MI9887927	EQ	22.56
7/13/2005	TSCA	US Bulk	148	02115	MI9887928	EQ	29.39
7/13/2005	TSCA	US Bulk	192-2	02116	MI9887929	EQ	21.76
7/13/2005	TSCA	US Bulk	155	02117	MI9887930	EQ	23.71
7/13/2005	TSCA	US Bulk	188-A	02118	MI9887931	EQ	27.44
7/13/2005	TSCA	US Bulk	192	02119	MI9887932	EQ	25.92

**U.S. EPA/Mahoningside Power Plant**  
**TSCA Waste**  
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<u>Shipping Date</u>	<u>Waste Type</u>	<u>Transport Company</u>	<u>Truck Number</u>	<u>Document Number</u>	<u>Manifest Number</u>	<u>Disposal Location</u>	<u>Actual Tonnage</u>
7/13/2000	TSCA	US Bulk	#NULL!	02120	MI9887934		21.31
7/13/2005	TSCA	US Bulk	180	02121	MI9887934	EQ	27.46
7/13/2005	TSCA	US Bulk	220	02122	MI9887935	EQ	27.3
7/13/2005	TSCA	US Bulk	222	02123	MI9887936	EQ	24.99
7/13/2005	TSCA	US Bulk	179	02124	MI9887937	EQ	28.95
7/13/2005	TSCA	US Bulk	359	02125	MI9887938	EQ	24.97
7/13/2005	TSCA	US Bulk	522	02126	MI9867456	EQ	22.77
7/14/2005	TSCA	US Bulk	178	02126	MI9867446	EQ	27.84
7/14/2005	TSCA	US Bulk	511	02127	MI9867447	EQ	22.74
7/14/2005	TSCA	US Bulk	102	02128	MI9867448	EQ	31.06
7/14/2005	TSCA	US Bulk	160-2	02129	MI9867449	EQ	25.95
7/14/2005	TSCA	US Bulk	186	02130	MI9867450	EQ	24
7/14/2005	TSCA	US Bulk	149	02131	MI9867451	EQ	24.23
7/14/2005	TSCA	US Bulk	105	02132	MI9867452	EQ	22.59
7/14/2005	TSCA	US Bulk	148	02133	MI9867453	EQ	26.12
7/14/2005	TSCA	US Bulk	163	02134	MI9867454	EQ	24.06
7/14/2005	TSCA	US Bulk	192-3	02135	MI9867455	EQ	20.65
7/14/2005	TSCA	US Bulk	506	02136	MI9867445	EQ	25.9
7/15/2005	TSCA	US Bulk	192-2	02137	MI9867469	EQ	26.57
7/15/2005	TSCA	US Bulk	178	02138	MI9867470	EQ	28.43
7/15/2005	TSCA	US Bulk	179	02139	MI9867472	EQ	25.81
						Total Tonnage=	3680.37

## **Confirmation Sample Results Table**

## MAHONINGSIDE YARD SOIL SAMPLE CONFIRMATION RESULTS

<u>SAMPLE ID</u>	<u>SAMPLE DATE</u>	<u>PARAMETER</u>	<u>RESULTS</u>	<u>UNITS</u>	<u>RESULT &gt; or = 25 mg/Kg</u>
YARD-042605-1	4/26/2005	Aroclor 1260	5.3	mg/Kg	
YARD-042605-2	4/26/2005	Aroclor 1260	2.6	mg/Kg	
YARD-042605-3	4/26/2005	Aroclor 1260	6.1	mg/Kg	
YARD-042605-4	4/26/2005	Aroclor 1260	21	mg/Kg	
YARD-042605-5	4/26/2005	Aroclor 1260	1.4	mg/Kg	
YARD-042605-6	4/26/2005	Aroclor 1260	3.1	mg/Kg	
YARD-042605-7	4/26/2005	Aroclor 1260	2.8	mg/Kg	
YARD-042605-8	4/26/2005	Aroclor 1260	4.2	mg/Kg	
YARD-042605-9	4/26/2005	Aroclor 1260	4.8	mg/Kg	
YARD-042605-10	4/26/2005	Aroclor 1260	2.4	mg/Kg	
YARD-042605-11	4/26/2005	Aroclor 1260	13	mg/Kg	
YARD-042605-12	4/26/2005	Aroclor 1260	1.2	mg/Kg	
YARD-042605-13	4/26/2005	Aroclor 1260	14	mg/Kg	
YARD-042605-14	4/26/2005	Aroclor 1260	8.9	mg/Kg	
YARD-042605-15	4/26/2005	Aroclor 1260	4.2	mg/Kg	
YARD-042605-16	4/26/2005	Aroclor 1260	15	mg/Kg	
YARD-072005-17	7/20/2005	Aroclor 1260	11	mg/Kg	<u>RESULT &gt;15 mg/Kg</u>
YARD-072005-18	7/20/2005	Aroclor 1260	20	mg/Kg	Re-sampled as #59
YARD-072005-19	7/20/2005	Aroclor 1260	10	mg/Kg	
YARD-072005-20	7/20/2005	Aroclor 1260	15	mg/Kg	
YARD-072005-21	7/20/2005	Aroclor 1260	16	mg/Kg	Re-sampled as #60
YARD-072005-22	7/20/2005	Aroclor 1260	16	mg/Kg	Composited with #21
YARD-072005-23	7/20/2005	Aroclor 1260	24	mg/Kg	Re-sampled as #61
YARD-072005-24	7/20/2005	Aroclor 1260	0.76	mg/Kg	
YARD-072005-25	7/20/2005	Aroclor 1260	4.2	mg/Kg	
YARD-072005-26	7/20/2005	Aroclor 1260	40	mg/Kg	Re-sampled as #62
YARD-072005-27	7/20/2005	Aroclor 1260	10	mg/Kg	
YARD-072005-28	7/20/2005	Aroclor 1260	36	mg/Kg	Re-sampled as #63
YARD-072005-29	7/20/2005	Aroclor 1260	15	mg/Kg	
YARD-072005-30	7/20/2005	Aroclor 1260	19	mg/Kg	Re-sampled as #64
YARD-072005-31	7/20/2005	Aroclor 1260	28	mg/Kg	Re-sampled as #65
YARD-072005-32	7/20/2005	Aroclor 1260	7.2	mg/Kg	
YARD-072005-33	7/20/2005	Aroclor 1260	21	mg/Kg	Re-sampled as #66
YARD-072005-34	7/20/2005	Aroclor 1260	12	mg/Kg	
YARD-072005-35	7/20/2005	Aroclor 1260	0.95	mg/Kg	
YARD-072005-36	7/20/2005	Aroclor 1260	10	mg/Kg	
YARD-072505-37	7/25/2005	Aroclor 1260	0.62	mg/Kg	
YARD-072505-38	7/25/2005	Aroclor 1260	0.59	mg/Kg	
YARD-072505-39	7/25/2005	Aroclor 1260	1.4	mg/Kg	
YARD-072505-40	7/25/2005	Aroclor 1248	0.066	mg/Kg	
YARD-072505-40	7/25/2005	Aroclor 1260	0.25	mg/Kg	
YARD-072505-41	7/25/2005	Aroclor 1260	0.91	mg/Kg	
YARD-072505-42	7/25/2005	Aroclor 1260	2.7	mg/Kg	
YARD-072505-43	7/25/2005	Aroclor 1248	0.3	mg/Kg	
YARD-072505-43	7/25/2005	Aroclor 1260	4.2	mg/Kg	
YARD-072505-44	7/25/2005	Aroclor 1248	0.049	mg/Kg	
YARD-072505-44	7/25/2005	Aroclor 1260	0.56	mg/Kg	

## SOIL SAMPLE CONFIRMATION RESULTS

<u>SAMPLE ID</u>	<u>SAMPLE DATE</u>	<u>PARAMETER</u>	<u>RESULT</u>	<u>UNITS</u>	
YARD-072505-45	7/25/2005	Aroclor 1248	0.65	mg/Kg	<u>RESULT &gt;15 mg/Kg</u>
YARD-072505-45	7/25/2005	Aroclor 1260	1.1	mg/Kg	
YARD-072505-46	7/25/2005	Aroclor 1248	0.97	mg/Kg	
YARD-072505-46	7/25/2005	Aroclor 1260	2.4	mg/Kg	
YARD-072505-47	7/25/2005	Aroclor 1248	0.51	mg/Kg	
YARD-072505-47	7/25/2005	Aroclor 1260	1.3	mg/Kg	
YARD-072505-48	7/25/2005	Aroclor 1248	0.013	mg/Kg	
YARD-072505-48	7/25/2005	Aroclor 1260	0.042	mg/Kg	
YARD-072505-49	7/25/2005	Aroclor 1248	0.14	mg/Kg	
YARD-072505-49	7/25/2005	Aroclor 1260	0.14	mg/Kg	
YARD-072505-50	7/25/2005	Aroclor 1248	1.9	mg/Kg	
YARD-072505-50	7/25/2005	Aroclor 1260	3.1	mg/Kg	
YARD-072505-51	7/25/2005	Aroclor 1248	0.045	mg/Kg	
YARD-072505-51	7/25/2005	Aroclor 1260	0.35	mg/Kg	
YARD-072505-52	7/25/2005	Aroclor 1248	0.14	mg/Kg	
YARD-072505-52	7/25/2005	Aroclor 1260	1.7	mg/Kg	
YARD-072505-53	7/25/2005	Aroclor 1248	0.34	mg/Kg	
YARD-072505-53	7/25/2005	Aroclor 1260	3.4	mg/Kg	
YARD-072505-54	7/25/2005	Aroclor 1248	0.91	mg/Kg	
YARD-072505-54	7/25/2005	Aroclor 1260	9.7	mg/Kg	
YARD-072505-55	7/25/2005	Aroclor 1248	0.018	mg/Kg	
YARD-072505-55	7/25/2005	Aroclor 1260	0.57	mg/Kg	
YARD-072505-56	7/25/2005	Aroclor 1248	0.1	mg/Kg	
YARD-072505-56	7/25/2005	Aroclor 1260	0.25	mg/Kg	
YARD-072505-57	7/25/2005	Aroclor 1248	0.053	mg/Kg	
YARD-072505-57	7/25/2005	Aroclor 1260	0.14	mg/Kg	
YARD-072505-58	7/25/2005	Aroclor 1248	0.024	mg/Kg	
YARD-072505-58	7/25/2005	Aroclor 1260	0.15	mg/Kg	
<u>Rescraped Area</u>			<u>Resampled</u>	<u>Results</u>	
YARD-080505-59	8/5/2005	Aroclor 1260	2.3	mg/kg	
YARD-080505-60	8/5/2005	Aroclor 1260	7.9	mg/kg	
YARD-080505-61	8/5/2005	Aroclor 1260	0.024	mg/kg	
YARD-080505-62	8/5/2005	Aroclor 1260	0.2	mg/kg	
YARD-080505-63	8/5/2005	Aroclor 1260	0.21	mg/kg	
YARD-080505-64	8/5/2005	Aroclor 1260	9	mg/kg	
YARD-080505-65	8/5/2005	Aroclor 1260	2.6	mg/kg	
YARD-080505-66	8/5/2005	Aroclor 1260	7.2	mg/kg	

## CONFIRMATION RESULTS FROM OTHER AREAS

### TUNNEL AREA COMPOSITE SAMPLE RESULTS

<u>SAMPLE ID</u>	<u>SAMPLE DATE</u>	<u>PARAMETER</u>	<u>RESULTS</u>	<u>UNITS</u>	<u>RESULT &gt; or = 25 mg/Kg</u>
TNV-041905	4/19/2005	Aroclor 1260	11	mg/Kg	

### CONCRETE COMPOSITE SAMPLE RESULTS

<u>SAMPLE ID</u>	<u>SAMPLE DATE</u>	<u>PARAMETER</u>	<u>RESULTS</u>	<u>UNITS</u>	<u>RESULT &gt; or = 25 mg/Kg</u>
<b>PILE A1-3</b>					
CC-042705-A1	4/27/2005	Aroclor 1260	ND	mg/Kg	
CC-042705-A2	4/27/2005	Aroclor 1260	ND	mg/Kg	
CC-042705-A3	4/27/2005	Aroclor 1260	ND	mg/Kg	
<b>PILE B1-3</b>					
CC-042705-B1	4/27/2005	Aroclor 1260	11	mg/Kg	
CC-042705-B2	4/27/2005	Aroclor 1260	ND	mg/Kg	
CC-042705-B3	4/27/2005	Aroclor 1260	0.084	mg/Kg	
<b>PILE C1-3</b>					
CC-042705-C1	4/27/2005	Aroclor 1260	0.82	mg/Kg	
CC-042705-C2	4/27/2005	Aroclor 1260	2.8	mg/Kg	
CC-042705-C3	4/27/2005	Aroclor 1260	0.38	mg/Kg	

### EXCAVATED TRENCH AREA SOIL COMPOSITE SAMPLE RESULTS

<u>SAMPLE ID</u>	<u>SAMPLE DATE</u>	<u>PARAMETER</u>	<u>RESULTS</u>	<u>UNITS</u>	<u>RESULT &gt; or = 25 mg/Kg</u>
40YDC-040605-122	4/6/2005	Aroclor 1260	15	mg/Kg	
40YDC-040605-123	4/6/2005	Aroclor 1260	8.7	mg/Kg	

## **Appendix C – Site Photos**

## **Site Photo Log**



**SITE:** Mahoningside Removal Site

**PHOTO NO:** 1

**DIRECTION:** SE

**PHOTOGRAPHER:** Andy Ravis

**DATE:** April 2005

**SUBJECT:** Consolidation of TSCA soil into one pile in the foreground. Segregating out large debris with Grappler attachment from soil and loading out in the background.



**SITE:** Mahoningside Removal Site

**PHOTO NO:** 2

**DIRECTION:** SE

**PHOTOGRAPHER:** Andy Ravis

**DATE:** April 2005

**SUBJECT:** Loading up and removing non-hazardous Pile B soil.



**SITE:** Mahoningside Removal Site  
**PHOTO NO:** 3            **DIRECTION:** E  
**PHOTOGRAPHER:** Andy Ravis

**DATE:** April 2005  
**SUBJECT:** Dust suppression engineering control to sustain ACM.



**SITE:** Mahoningside Removal Site  
**PHOTO NO:** 4            **DIRECTION:** NW  
**PHOTOGRAPHER:** Andy Ravis

**DATE:** April 2005  
**SUBJECT:** Loading lined truck from non-hazardous Pile B.



**SITE:** Mahoningside Removal Site

**PHOTO NO:** 5

**DIRECTION:** E

**PHOTOGRAPHER:** Andy Ravis

**DATE:** April 2005

**SUBJECT:** Reconfiguring Pile C-40 into cubic yard sub-piles prior to sampling.



**SITE:** Mahoningside Removal Site

**PHOTO NO:** 6

**DIRECTION:** N

**PHOTOGRAPHER:** Andy Ravis

**DATE:** April 2005

**SUBJECT:** Pile C 40 yard sub-piles after sampling.



**SITE:** Mahoningside Removal Site

**PHOTO NO:** 7

**DIRECTION:** NW

**PHOTOGRAPHER:** Andy Ravis

**DATE:** April 2005

**SUBJECT:** Articulating dump truck moving Pile A TSCA soil to the A & C TSCA consolidation soil pile in the foreground prior to removal.



**SITE:** Mahoningside Removal Site

**PHOTO NO:** 8

**DIRECTION:** E-NE

**PHOTOGRAPHER:** Andy Ravis

**DATE:** April 2005

**SUBJECT:** Concrete pile accumulation area.



**SITE:** Mahoningside Removal Site

**PHOTO NO:** 9      **DIRECTION:** E

**PHOTOGRAPHER:** Andy Ravis

**DATE:** April 2005

**SUBJECT:** Initiation of soil removal from the 100' long trench area located between the Power Plant foundation and the Mahoning River.



**SITE:** Mahoningside Removal Site

**PHOTO NO:** 10      **DIRECTION:** E

**PHOTOGRAPHER:** Andy Ravis

**DATE:** April 2005

**SUBJECT:** Exposed trench area at east end of project site.



**SITE:** Mahoningside Removal Site

**PHOTO NO:** 11      **DIRECTION:** E

**PHOTOGRAPHER:** Andy Ravis

**DATE:** September 2005

**SUBJECT:** Site view looking east from site entrance after completion.



**SITE:** Mahoningside Removal Site

**PHOTO NO:** 12      **DIRECTION:** E

**PHOTOGRAPHER:** Andy Ravis

**DATE:** September 2005

**SUBJECT:** Site exposure viewing east of clean concrete piles left for backfill.

## **Appendix D – Project Work Plans**

## **Site Sampling Plan**

## MAHONINGSIDE SOIL REMOVAL SAMPLING PLAN

SITE NAME: Mahoningside Power Plant

PROJECT TASK# 12634.001.001.0508

TDD# 0501-011

SITE LOCATION: Warren, Ohio. Located along North Tod and Summit Streets

SITE OR FACILITY TYPE: Former hydroelectric and coal burning Power Plant from 1904-1980.

DATE: February 23, 2005

Sample Dates: February – April, 2005

OSC:

Mark Durno

START PREPARER: Frank L. Beodray SAP QA REVIEWER: Linda Korobka

START ONS-SITE LEAD: Andy Ravis

### **OBJECTIVE OF SAMPLING:**

Collect representative composite samples from three established soil piles for waste minimization. Two of the soil piles A & C have been identified as having mixed TSCA concentrations above 50 mg/Kg. The objective of this project is to establish a sampling grid system to properly sample and segregate TSCA soil from non-TSCA soil based on a 50 mg/Kg total PCB concentration. The composite strategy action level cut-off concentration used for this project will be 25 mg/Kg [Subpart G (3) (v)]. This concentration is based on 40 CFR Part 761, Subparts G and O. A separate, stand alone confirmation sampling plan will discuss the details of that sampling effort. This sampling plan will be used for reconfiguration and characterization of piles for off-site disposal and for characterization of large (bulk) materials that may remain on-site. A separate Air Monitoring Plan has also been prepared for this project that discusses the personal and perimeter air monitoring that will be done for worker exposure and potential offsite emissions.

### **SAMPLING METHODS:**

**Soil Sampling:** Once the waste soil is placed in approximate 15' x 15' x 5', 40 cubic yard (cy) piles for sampling, a total of nine grab samples will be taken from each pile. Nine grids will be identified for each pile and samples will be collected three alternating depths intermittently (see attached sketch). The nine grab samples will be placed into stainless steel bowl mixed and composited. The representative sample will be placed inside an 8-ounce wide mouth glass jar, marked accordingly and prepared for shipment to an offsite laboratory for PCB analysis. Samples will be collected using shovels and/or a post hole digger and dedicated plastic spades.

**Large Debris Sampling:** solid porous material such as concrete larger than 3' in any direction that has been already segregated will also be sampled by START. Samples of this material will be biased towards obvious stained material. Three to nine grab samples of this media will be collected using chipping methods and composited into one representative sample for PCB laboratory analysis. In the event that these large surfaces are observed as non-porous surfaces for

debris, surface wipe samples will be collected. Wipe samples will be collected and submitted to the laboratory for analysis. A minimum reporting level of 100  $\mu\text{g}/\text{cm}^2$  will be provided as the clean up goal for this material. A minimum of 3 wipes per media type will be collected per pile.

#### **Asbestos Wipes:**

Wipe samples will also be collected for asbestos verification of large debris per the criteria mentioned above. ACM wipes samples will be collected from a 10cm x 10cm surface in similar fashion to a PCB wipe except the wipe gauze will be placed in a water solution instead of hexane. Since wipe results are based on concentration versus area, anything reported as asbestos fibers present will require re-washing and re-sampling. There will also be 3 samples collected for TEM, EPA Method 600/R-93/116 laboratory analysis.

#### **Confirmation Sampling:**

Once all waste material has been removed from site, confirmation sampling will be performed underneath the debris piles, use and staging areas. A representative sample area size will be established based on a composite sample strategy and 40 CFR Part 761 Subpart O. This sampling approach will statistically satisfy one representative weighted composite sample from each area. The number of grab samples from each grid for compositing will be determined in a separate, Soil Confirmation Plan.

All sampling will be performed in accordance with START's SOP# 403-Waste Pile Sampling standard operating procedures and US EPA's Waste Pile Sampling SOP# 2017, 11/17/94 and the Mahoningside Power Plant Site January 16, 2005 dated approved work plan.

#### **HEALTH & SAFETY/PPE:**

Soil and debris sample collection will be conducted in Level C. This will include the use of GME-P100 or equivalent combination organic vapor/particulate filter cartridges, nitrile gloves, tyvek suit and latex booties. A box of silver shields may be added for the potential sampling of heavy oil-laden material, if encountered. START will work under the EQM generated Health and Safety plan with Weston Solutions, Inc. review and concurrence.

#### **LABORATORY METHODS:**

Samples will be submitted to the laboratory for PCBs via method SW846 8082. The laboratory TDD will be procured by EQM for these services. START recommends a one duplicate sample be collected for each 10 samples for quality control purposes. The laboratory selected to provide PCB soil analysis is STL's Laboratory in North Canton, Ohio. STL is an Ohio Voluntary Action Plan (VAP) certified laboratory. The contract has been set up for a variety of turn around time (TAT) options. The TAT will be determined in the field based on the needs of space on the project work site from 100, 1-day, and 80, 2 and 3-day rapid TAT options for the PCB samples. Asbestos samples will be analyzed by Polarized Light Microscopy (PLM) unless otherwise specified. The laboratory selected to analyze the asbestos samples is EMSL located in Westmont, New Jersey. Chain of Custody and sample tags will be generated using SCRIBE for sample documentation control and ease of quality control/quality assurance management.

**DECONTAMINATION:**

Soil sampling equipment such as the stainless steel mixing bowl and a shovel or bucket auger for deeper samples, will be decontaminated for re-use after each 40 cy pile has been completed. Dedicated plastic sample spatulas used for upper level soil sample collection will be discarded after completing the nine point sampling of each area. PPE and all other expendable items such as APR cartridges will be disposed in large plastic garbage bags at the end of each day. Decontamination will be accomplished with Liqui-Nox® and distilled water.

**PACKAGING:** Iced coolers and bubble wrap will be used to package and ship samples to avoid breakage. Samples for PCB analysis are expected to be transported via courier, as provided by the laboratory.

**DELIVERABLES:** QC Summary with results package. Report will be an EDD deliverable in Excel format that is compatible for Scribe import. These EDDs will include results for QC samples associated with PCB analysis. At a minimum this will include the method blank, laboratory control sample, laboratory duplicate, matrix spike and matrix spike duplicate, as necessary for project specific samples. The final data package will consist of a pdf illustrating all associated results and raw data. This data package will be a CLP like, validatable package. Original copies of the signed COCs will be sent to EQM after the data package has been compiled. All electronic data will be placed on an EQM secured ftp site.

**PROJECT MANAGER SIGNATURE:** \_\_\_\_\_

**U.S. EPA OSC SIGNATURE:** \_\_\_\_\_

**PROJECT SAMPLE TABLE**

<b>NUMBER OF SAMPLES</b>	<b>MATRIX*</b>	<b>CONTAINER TYPE</b>	<b>PARAMETER</b>	<b>PRESERVATIVE</b>	<b>QA/QC REQUESTED@ AND/OR SPECIAL DETECTION LIMIT</b>
TBD	<b>Soil Pile A-C</b>	8-ounce glass jar w/ Teflon lid	PCB only Method 8082	Ice	1 duplicate per 10 Minimum DL/method MS/MSD 1 per 20 samples
TBD	<b>Debris PCB Wipes</b>	Wipe tube with gauze & hexane	PCB only Method 8082	Hexane	1 duplicate per 10 Minimum DL/method
TBD	<b>Debris ACM Wipes</b>	Wipe tube with gauze & water	ACM-TEM EPA Method 600/R-93/116	Ice	MDL ~ 0.1% by weight <u>1 sample per 3' or greater material</u>

## Air Monitoring Plan

# **SITE AIR MONITORING PLAN**

**FOR THE**

**Mahoningside Power Plant Site**

**Warren, Trumbull County, Ohio**

**TDD # S05-0501-011**

**Prepared For:**

**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
Region V Emergency Response Branch  
25089 Center Ridge Road  
Westlake, Ohio 44145**

**Approvals:**

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**Mark Durno, U.S. EPA On-Scene Coordinator**

**Date**

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**Frank Beodray, Project Manager, START, Weston Solutions**

**Date**

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## Table of Contents

<u>Section</u>		<u>Page</u>
1.0	<b>MONITORING PLAN OVERVIEW.....</b>	1-1
1.1	<b>Airborne Contaminant Evaluations.....</b>	1-1
1.1.1	<b>Personal Monitoring.....</b>	2-2
1.1.2	<b>Perimeter Monitoring.....</b>	2-2
1.2	<b>Maintenance and Calibration of Equipment.....</b>	2-2
2.0	<b>LABORATORY SAMPLE ANALYSIS AND REPORTING.....</b>	3-3
3.0	<b>STANDARD OPERATING PROCEDURES.....</b>	3-3

<u>Table</u>		<u>Page</u>
Table 1-1	<b>AIR MONITORING SPECIFICATIONS.....</b>	2-2
Table 1-2	<b>TARGET STRESSOR INFORMATION.....</b>	3-3

## **1.0 MONITORING PLAN OVERVIEW**

This Air Monitoring Plan outlines monitoring strategies and analytical methods, which can be used to assess personnel exposure to contaminants and off-site migration of contaminants during environmental services at the Mahoningside Power Plant Site, 650 Summit Street, Warren, Ohio. Monitoring will consist of evaluating personnel exposures to asbestos while workers perform activities associated with the sampling and removal of three soil/debris piles, which have the potential for site contaminants (asbestos) to become airborne. Personal monitoring will be performed for the first seven days of site activities and will include: one technician and one operator during the site activities. The only exception for not doing air monitoring is in the event of precipitation (snow or rain) which would virtually eliminate any airborne particles and act as a natural, engineering control mechanism. This situation may also prohibit accurate sampling. A decision regarding the performance of monitoring which may be impacted by weather conditions will be discussed with EPA prior to the work day beginning. In the event monitoring is not performed, START will be documented the reasons why monitoring was not conducted. If monitoring results indicated asbestos above the PEL, monitoring will continue until monitoring results for 7 consecutive days are below the PEL. A PEL limit of 0.1 fibers/cc will be used to assess the data.

Monitoring will also consist of evaluating the off-site migration of site contaminants through perimeter monitoring. Perimeter monitoring will include: one fixed location upwind of the site activities located west of the soil/debris piles and east of North Tod, and three fixed locations downwind of the site activities located east of the soil/debris piles and west of the Mahoning River. If monitoring results indicate asbestos below the Permitted Exposure Limit (PEL), perimeter monitoring will be discontinued. If monitoring results indicated asbestos above the PEL, monitoring will continue until monitoring results for 7 consecutive days are below the PEL. Even if the 7-day PEL criteria above are met, 1 or 2 person air monitoring will continue through the duration of the project to assure worker protection. Limited perimeter monitoring may also resume if conditions substantially change as the weather begins to warm up towards the later stages of the project.

### **1.1 Airborne Contaminant Evaluations**

To quantify potential worker exposure concentrations of airborne asbestos fibers that may be released while disturbing impacted material, monitoring will be performed in the worker's breathing zones (BZ) throughout a representative work shift (a minimum of seven hours). To quantify off-site migration concentrations of airborne asbestos fibers that may be released while disturbing impacted material, monitoring will be performed at the breathing zones (approximately 5 feet) throughout a representative work shift (a minimum of seven hours). Quantitative and qualitative monitoring will be conducted by WESTON START using the instrumentation and methods specified in Tables 1-1 and 1-2. One field blank will be submitted for each 10 air samples collected for quality assurance quality control purposes.

**TABLE 1-1 AIR MONITORING SPECIFICATIONS**

<b>INSTRUMENT TYPE</b>	<b>EQUIPMENT MANUFACTURER</b>	<b>TARGET STRESSOR</b>
<p>Personal monitoring pumps (battery operated) calibrated to an appropriate flow rate of 2.0 liters per minute equipped with sampling cartridge listed in the NIOSH Method 7400, PCM for asbestos.</p> <ol style="list-style-type: none"> <li>1. The cartridges used for personal monitoring will be attached directly to the work uniform near/on the lapel at a 45 degree angle.</li> <li>2. The cartridges used for perimeter monitoring will be attached to the stand or some other stationary device holding the pump at an elevation of approximately 5 feet.</li> </ol>	<p>SKC, MSA, (or equivalent).</p> <p>Number of Pumps Required: 7 (6 used for personal and perimeter monitoring and 1 stored as backup).</p>	<p>1. Asbestos</p> <p>Personal monitoring will include:</p> <ol style="list-style-type: none"> <li>1) One (1) worker performing each specific job task for the soil/debris pile sampling and removal activities, which includes: one (1) technician and one (1) operator.</li> <li>2) When sampling for asbestos, the pump will be equipped with a 25mm MCEF sampling cassette.</li> </ol> <p>Perimeter monitoring will include:</p> <ol style="list-style-type: none"> <li>1) One (1) fixed location upwind of the soil/debris pile sampling and removal activities, and one (1) fixed location downwind of the soil/debris pile sampling and removal activities.</li> <li>2) When sampling for asbestos, the pump will be equipped with a 25mm MCEF sampling cassette.</li> </ol>

\* MCEF – mixed cellulose ester fiber

### **1.1.1 Personal Monitoring**

Measurement of personnel exposures to asbestos while workers perform activities associated with the sampling and removal of three soil/debris piles, which have the potential to disturb impacted materials and may include the following: excavation, material segregation, material sampling, material loading, or decontamination operations. Personal monitoring will be performed for the first seven days of site activities and will include: one technician and one operator during the site activities. If monitoring results indicate asbestos below the Permitted Exposure Limit (PEL), personal monitoring will be discontinued. If monitoring results indicated asbestos above the PEL, monitoring will continue until monitoring results for 7 consecutive days are below the PEL. Monitoring techniques will be determined by the Site Health and Safety Officer (SHSO), and will conform to applicable Occupational Safety and Health Administration (OSHA), and/or National Institute for Occupational Safety and Health (NIOSH) sampling methods. Samples will be collected by, or under the direction of, a member of the WESTON Health and Safety Department. An Analytical Laboratory accredited by the American Industrial Hygiene Association (AIHA) and participant in the AIHA Proficiency Analytical Testing (PAT) program, shall perform the analysis.

### **1.1.2 Perimeter Monitoring**

Measurement of off-site migration of site contaminants (asbestos) during activities associated with the sampling and removal of three soil/debris piles, which have the potential to disturb impacted materials and may include the following: excavation, material segregation, material sampling, material loading, or decontamination operations. Perimeter monitoring will be performed for the first seven days of site activities and will include one sample point at each of the following four locations:

- Upwind of the work activities (predominantly at the western point)
- Downwind of the work activities (predominantly at the western point)
- North side of work activities within the work zone
- South side of work activities within the work zone

If monitoring results indicate asbestos below the Permitted Exposure Limit (PEL), personal monitoring may be discontinued. If any of the monitoring results indicated asbestos above the PEL, monitoring will continue until monitoring results for 7 consecutive days are below the PEL. Monitoring techniques will be determined by the Site Health and Safety Officer (SHSO), and will conform to applicable Occupational Safety and Health Administration (OSHA), and/or National Institute for Occupational Safety and Health (NIOSH) sampling methods. Samples will be collected by, or under the direction of, a member of the WESTON Health and Safety Department. An Analytical Laboratory accredited by the American Industrial Hygiene Association (AIHA) and participant in the AIHA Proficiency Analytical Testing (PAT) program, shall perform the analysis.

## **Perimeter Data RAM**

A Perimeter data RAM (PDR) will also be used to assure dust and particulate levels are monitored and maintained during work activities. Baseline reading will be established one day before soil moving operations begin to determine what background conditions are onsite. These readings will be used to compare the particulate concentration levels to the levels once the work has commenced. Two PDR units will be employed to monitor the site conditions. One will be placed downwind of the work activities and will be continuously recorded for the first 3 days of activities to establish average work conditions down wind of the CAT excavator and or loader. A second PDR will be placed at a closer proximity to the operator and will be moved periodically to collect readings all around the work activities. An action level of 0.500 mg/m<sup>3</sup> sustained for a full minute will require ceasing action and re-evaluating the work activity, current conditions and what engineering controls (i.e. wetting of soil) can be applied to reduce the particulate matter in the atmosphere. After the initial 3-day evaluation a determination will be made as to the frequency of monitoring required. At minimum, the PDR's will be set up for an hour each day to monitor the day's activities.

### **1.2 Maintenance and Calibration of Equipment**

All monitoring equipment will be maintained and calibrated in accordance with applicable manufacturer recommendations. All pertinent data will be logged in a logbook (or equivalent) and maintained on site for the duration of site activities. Calibration of all monitoring equipment will be performed daily (pre-calibration and post-calibration after each sampling period) per the equipment manufacturer recommendations. Documentation of calibration will be maintained in the site log book or in a separate calibration log that will be used for this project.

**TABLE 1-2 TARGET STRESSOR INFORMATION**

TARGET STRESSOR	NIOSH <sup>a</sup> /OSHA <sup>b</sup> METHOD	SAMPLE MEDIA	RECOMMENDED FLOW RATES (LPM <sup>c</sup> ) / VOLUME (LITERS)	OSHA PEL <sup>d</sup>
Asbestos	NIOSH 7400, PCM	0.8 micron mixed cellulose ester membrane, 25 millimeter diameter cassette(s)	0.5-16.0 / 480-1000	0.1 fibers/cc

**a** - National Institute for Occupational Safety and Health

**b** - Occupational Safety and Health Administration

**c** - Liters per minute

**d** - Permissible Exposure Limit

## **2.0 LABORATORY SAMPLE ANALYSIS AND REPORTING**

Persons sampled, tasks performed, duration, volumes and laboratory results will be provided in a letter report format within four weeks of receiving the sample analysis results. Sampling and analyses will be performed in accordance with the appropriate NIOSH or OSHA method under the direction of a WESTON Health & Safety Supervisor. The proposed sample methods for this initial characterization monitoring are listed in Table 1-2.

Calculations to determine the 8-hour time weighted average (TWA) or ceiling concentration results will be performed as needed to allow for comparison to applicable OSHA Permissible Exposure Limits (PEL). All monitoring results will be available for review upon receipt from the laboratory.

Where personal sampling is performed, the WESTON Health and Safety Department will be responsible for informing employees and subcontractors of their monitoring results to comply with OSHA regulations and good occupational health practices. Within five working days after the receipt of monitoring results, the Health and Safety Department will notify each employee of the results, which represent that employee's exposure.

Whenever the results indicate that employee exposure exceeds the permissible exposure limits (PEL), notification shall be provided to affected employee stating that the permissible exposure limit was exceeded and providing a description of the corrective action taken to reduce exposure to a level below the PEL. Results of monitoring for other hazardous and harmful physical agents shall also be reported to employees in the same manner.

## **3.0 STANDARD OPERATING PROCEDURES (SOPs)**

Reference WESTON START5 SOP 2017 and U.S. EPA ERT START5 SOP 807 for further information.

## Confirmation Plan

## **MAHONINGSIDE POWER PLANT** **SOIL CONFIRMATION SAMPLING PLAN**

**SITE NAME:** Mahoningside Power Plant

**PROJECT TASK#** 12634.001.001.0508

**TDD#** 0501-011

**SITE LOCATION:** 650 Summit Street, Warren, Ohio 44485. Located near North Tod and Summit Street

**SITE OR FACILITY TYPE:** Former Hydroelectric and Coal Burning Power Plant from 1904-1980.

**DATE:** April 6, 2005      **Sample Dates:** April, 2005      **OSC:** Mark Durno

**START Project Manager:** Frank L. Beodray

**START On-Site Lead:** Andy Ravis

**NOTE:** This plan overrides the duplicate information addressed in the February 23, 2005 project SAP.

### **INTRODUCTION:**

The objective of this phase of the project is to properly sample the ground surface soil to assure that no detectable PCB concentrations that equal or exceed 25 mg/Kg remains on site in the project area.

### **SOIL CONFIRMATION SAMPLING:**

Once all waste soil and debris material has been removed from site, 6" of the surface soil will be scraped off prior to collection of any confirmation samples. This area in include all areas affected by the contaminated soil on site that includes the soil underneath the former debris piles, sampling and staging areas. Samples will be collected using a sample composite strategy per 40 CFR Part 761 Subpart O, 761.283 (a) and 761.289 (b)(1)(i). This sampling strategy will require a 9-point aliquot per one composite for each 25' x 25' area. Samples will be sampled and analyzed to total PCBs. If the total concentration of PCBs in any 625ft<sup>2</sup> area equals or exceeds the composite strategy clean up goal of 25 mg/Kg, then an additional 6" of the surface soil within that grid will be re-scraped and re-sampled using the same procedure. Four composite samples will be collected and analyzed per 50'x 50' area.

### **LARGE DEBRIS SAMPLING:**

All large debris will be washed by the contractor prior to sample collection. The wash/rinsate will be absorbed by the ground surface which will be scrapped up as part of the remedial soil confirmation strategy described above.

### **Porous:**

Solid porous material such as concrete or wood larger then 3' in any direction will also be sampled by START. Samples of this material will be collected with biased towards obvious stained material if applicable. Three to nine aliquot grab samples of this media will be collected from the debris pile after it has been pressure washed using coring sample collection methods as defined by 761.265. These aliquots will be composited into one representative sample per media

for PCB laboratory analysis. A minimum of 30 grams of waste material will be collected for analysis. Each composited item will be specifically designated to distinguish which sample it represented in case it requires rewashing/sampling. Approximately 1 composite sample will be collected per 20 cubic yard area. A minimum of 3 composite samples of the debris material will be collected for laboratory analyses per 40 CFR PART 761, Subpart O, Section 761.283 (a).

**Non-Porous:**

In the event that these large surfaces are non-porous (all metal painted or unpainted) surfaces, surface wipe samples will be collected. Wipe samples will be collected and submitted to the laboratory for analysis. A minimum reporting level of 100 ug/cm<sup>2</sup> will be requested by the laboratory. A minimum of 3 wipes per media type will be collected per pile.

**PCB Clean Up Objective:**

The composite strategy action level cut-off concentration used for this project will be > or equal to 25 mg/Kg [Subpart G (3) (v)] total PCB concentration for both soil and concrete chip samples. This concentration is based on 40 CFR Part 761, Subparts G and O. Wipe sample objectives based on 40 CFR Part 761, Subpart G, Section 761.125 (c) (3) (iv) Low-contact, outdoor surfaces shall be cleaned to 100 ug/100 cm<sup>2</sup>.

**SAMPLING METHODS:**

**Soil Confirmation Sampling:**

Once the waste soil and debris has been removed and the area to be tested has approximately 6" of soil removed from the ground surface, confirmation soil sampling will be initiated. The area will be designated with 25' by 25' sampling grids from which a total of nine grab (aliquot) samples will be collected and composited for one sample. Nine aliquot sample grabs will be equally spaced in three rows of three within the 25' x 25' grid. The nine grab samples will be placed into stainless steel bowl mixed and composited. The representative sample will be placed inside an 8-ounce wide mouth glass jar, marked accordingly and prepared for shipment to STL laboratories in North Canton, Ohio for PCB analysis. All samples will be uniformly collected from a depth interval of 0-3" below the ground surface using a dedicated plastic spatula and mixed thoroughly before placing a minimum of 4 ounces of sample media in the jar. The spatula will be discarded and sample will be properly labeled and placed into a sample cooler.

**Large Debris Concrete Core Sampling:**

Concrete samples will be collected with a hand held hammer drill and core bit. Four holes approximately 1" deep will be placed within a 10cm x 10cm area for one grab sample. Three to nine grab samples will be collected per 20 cy area in this manner from the larger pieces of concrete for PCB analysis.

**HEALTH & SAFETY/PPE:**

Soil and debris sample collection will be conducted in Level C. This will include the use of GME-P100 or equivalent combination organic vapor/particulate filter cartridges, nitrile gloves, tyvek suit and latex booties. A box of silver shields may be added for the potential sampling of heavy oil-laden material, if encountered. START will work under the EQM generated Health and Safety plan with Weston Solutions, Inc. review and concurrence.

### LABORATORY METHODS:

Samples will be submitted to the laboratory for PCBs via method SW846 8082. The laboratory TDD will be procured by EQM for these services. START recommends a one duplicate sample be collected for each 10 samples for quality control purposes. The laboratory selected to provide PCB soil analysis is STL's Laboratory in North Canton, Ohio. STL is an Ohio Voluntary Action Plan (VAP) certified laboratory. The contract has been set up for a variety of turn around time (TAT) options. The TAT will be determined in the field based on the needs of space on the project work site from 100, 1-day, and 80, 2 and 3-day rapid TAT options for the PCB samples. Asbestos samples will be analyzed by Polarized Light Microscopy (PLM) unless otherwise specified.

### DECONTAMINATION:

Soil sampling equipment such as the stainless steel mixing bowl and a shovel or bucket auger for deeper samples, will be decontaminated for re-use after each 625 sf grid area has been completed. Dedicated plastic sample spatulas used for soil sample collection which will be discarded after completing the nine point sampling of each area. Tools or core bits will be decontaminated after each concrete composite sample collection. PPE and all other expendable items such as APR cartridges will be disposed in large plastic garbage bags at the end of each day. Decontamination will be accomplished with Liqui-Nox® and distilled water.

PACKAGING: Iced coolers and bubble wrap will be used to package and ship samples to avoid breakage. Samples for PCB analysis are expected to be transported via courier, as provided by the laboratory.

NUMBER OF SAMPLES	MATRIX	CONTAINER TYPE	PARAMETER	PRESERVATIVE	QA/QC REQUESTED@ AND/OR SPECIAL DETECTION LIMIT
1 Composite (9-points)	PCB Soil (25' x 25')	8-ounce glass jar w/ Teflon lid	PCB only Method 8082	Ice	1 duplicate per 10 Minimum DL/method
3/pile (3.9 points each)	Concrete (core sample)	4-ounce jar or plastic baggies, (Min. 30 grams)	PCB only Method 8082	Ice	1 duplicate per 10 Minimum DL/method
3/pile	Debris PCB Wipes	Wipe tube with gauze & hexane	PCB only Method 8082	Hexane	Minimum DL/method

PROJECT MANAGER SIGNATURE: Frank L. Beodray

U.S. EPA OSC SIGNATURE: \_\_\_\_\_